



Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $148^\circ$ ,  $11^\circ$  and  $10^\circ$ .
- 2) A triangle with the angles:  $126^\circ$ ,  $11^\circ$  and  $43^\circ$ .
- 3) A triangle with the angles:  $43^\circ$ ,  $34^\circ$  and  $75^\circ$ .
- 4) A triangle with the angles:  $30^\circ$ ,  $1^\circ$  and  $149^\circ$ .
- 5) A triangle with the angles:  $42^\circ$ ,  $40^\circ$  and  $68^\circ$ .
- 6) A triangle with the angles:  $111^\circ$ ,  $32^\circ$  and  $21^\circ$ .
- 7) A triangle with the angles:  $73^\circ$ ,  $22^\circ$  and  $85^\circ$ .
- 8) A triangle with the angles:  $22^\circ$ ,  $90^\circ$  and  $68^\circ$ .
- 9) A triangle with the angles:  $32^\circ$ ,  $19^\circ$  and  $129^\circ$ .
- 10) A triangle with the angles:  $101^\circ$ ,  $21^\circ$  and  $52^\circ$ .
- 11) A triangle with the sides: 6ft, 9ft and 5ft.
- 12) A triangle with the sides: 3ft, 3ft and 6ft.
- 13) A triangle with the sides: 2mm, 2mm and 9mm.
- 14) A triangle with the sides: 4in, 2in and 5in.
- 15) A triangle with the sides: 4mm, 6mm and 3mm.
- 16) A triangle with the sides: 3cm, 2cm and 1cm.
- 17) A triangle with the sides: 4mm, 4mm and 7mm.
- 18) A triangle with the sides: 3in, 3in and 5in.
- 19) A triangle with the sides: 2in, 2in and 6in.
- 20) A triangle with the sides: 10in, 10in and 6in.

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- 2) A triangle with the angles:  $126^\circ$ ,  $11^\circ$  and  $43^\circ$ .
- 3) A triangle with the angles:  $43^\circ$ ,  $34^\circ$  and  $75^\circ$ .
- 4) A triangle with the angles:  $30^\circ$ ,  $1^\circ$  and  $149^\circ$ .
- 5) A triangle with the angles:  $42^\circ$ ,  $40^\circ$  and  $68^\circ$ .
- 6) A triangle with the angles:  $111^\circ$ ,  $32^\circ$  and  $21^\circ$ .
- 7) A triangle with the angles:  $73^\circ$ ,  $22^\circ$  and  $85^\circ$ .
- 8) A triangle with the angles:  $22^\circ$ ,  $90^\circ$  and  $68^\circ$ .
- 9) A triangle with the angles:  $32^\circ$ ,  $19^\circ$  and  $129^\circ$ .
- 10) A triangle with the angles:  $101^\circ$ ,  $21^\circ$  and  $52^\circ$ .
- 11) A triangle with the sides: 6ft, 9ft and 5ft.
- 12) A triangle with the sides: 3ft, 3ft and 6ft.
- 13) A triangle with the sides: 2mm, 2mm and 9mm.
- 14) A triangle with the sides: 4in, 2in and 5in.
- 15) A triangle with the sides: 4mm, 6mm and 3mm.
- 16) A triangle with the sides: 3cm, 2cm and 1cm.
- 17) A triangle with the sides: 4mm, 4mm and 7mm.
- 18) A triangle with the sides: 3in, 3in and 5in.
- 19) A triangle with the sides: 2in, 2in and 6in.
- 20) A triangle with the sides: 10in, 10in and 6in.

Answers

1.     **i**
2.     **p**
3.     **i**
4.     **p**
5.     **i**
6.     **i**
7.     **p**
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18.     **p**
19.     **i**
20.     **p**



Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $120^\circ$ ,  $33^\circ$  and  $27^\circ$ .
- 2) A triangle with the angles:  $96^\circ$ ,  $15^\circ$  and  $69^\circ$ .
- 3) A triangle with the angles:  $13^\circ$ ,  $57^\circ$  and  $110^\circ$ .
- 4) A triangle with the angles:  $54^\circ$ ,  $41^\circ$  and  $83^\circ$ .
- 5) A triangle with the angles:  $159^\circ$ ,  $20^\circ$  and  $1^\circ$ .
- 6) A triangle with the angles:  $125^\circ$ ,  $10^\circ$  and  $32^\circ$ .
- 7) A triangle with the angles:  $155^\circ$ ,  $11^\circ$  and  $7^\circ$ .
- 8) A triangle with the angles:  $128^\circ$ ,  $2^\circ$  and  $42^\circ$ .
- 9) A triangle with the angles:  $65^\circ$ ,  $90^\circ$  and  $17^\circ$ .
- 10) A triangle with the angles:  $89^\circ$ ,  $43^\circ$  and  $48^\circ$ .
- 11) A triangle with the sides: 6ft, 6ft and 6ft.
- 12) A triangle with the sides: 9ft, 3ft and 2ft.
- 13) A triangle with the sides: 6in, 6in and 6in.
- 14) A triangle with the sides: 3ft, 4ft and 2ft.
- 15) A triangle with the sides: 5in, 5in and 4in.
- 16) A triangle with the sides: 5in, 10in and 4in.
- 17) A triangle with the sides: 9mm, 9mm and 5mm.
- 18) A triangle with the sides: 4mm, 10mm and 3mm.
- 19) A triangle with the sides: 1ft, 1ft and 1ft.
- 20) A triangle with the sides: 6ft, 3ft and 7ft.

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Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $120^\circ$ ,  $33^\circ$  and  $27^\circ$ .
- 2) A triangle with the angles:  $96^\circ$ ,  $15^\circ$  and  $69^\circ$ .
- 3) A triangle with the angles:  $13^\circ$ ,  $57^\circ$  and  $110^\circ$ .
- 4) A triangle with the angles:  $54^\circ$ ,  $41^\circ$  and  $83^\circ$ .
- 5) A triangle with the angles:  $159^\circ$ ,  $20^\circ$  and  $1^\circ$ .
- 6) A triangle with the angles:  $125^\circ$ ,  $10^\circ$  and  $32^\circ$ .
- 7) A triangle with the angles:  $155^\circ$ ,  $11^\circ$  and  $7^\circ$ .
- 8) A triangle with the angles:  $128^\circ$ ,  $2^\circ$  and  $42^\circ$ .
- 9) A triangle with the angles:  $65^\circ$ ,  $90^\circ$  and  $17^\circ$ .
- 10) A triangle with the angles:  $89^\circ$ ,  $43^\circ$  and  $48^\circ$ .
- 11) A triangle with the sides: 6ft, 6ft and 6ft.
- 12) A triangle with the sides: 9ft, 3ft and 2ft.
- 13) A triangle with the sides: 6in, 6in and 6in.
- 14) A triangle with the sides: 3ft, 4ft and 2ft.
- 15) A triangle with the sides: 5in, 5in and 4in.
- 16) A triangle with the sides: 5in, 10in and 4in.
- 17) A triangle with the sides: 9mm, 9mm and 5mm.
- 18) A triangle with the sides: 4mm, 10mm and 3mm.
- 19) A triangle with the sides: 1ft, 1ft and 1ft.
- 20) A triangle with the sides: 6ft, 3ft and 7ft.

Answers

1.     **p**
2.     **p**
3.     **p**
4.     **i**
5.     **p**
6.     **i**
7.     **i**
8.     **i**
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17.     **p**
18.     **i**
19.     **p**
20.     **p**



Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $56^\circ$ ,  $67^\circ$  and  $49^\circ$ .
- 2) A triangle with the angles:  $104^\circ$ ,  $39^\circ$  and  $37^\circ$ .
- 3) A triangle with the angles:  $11^\circ$ ,  $6^\circ$  and  $141^\circ$ .
- 4) A triangle with the angles:  $19^\circ$ ,  $51^\circ$  and  $97^\circ$ .
- 5) A triangle with the angles:  $19^\circ$ ,  $129^\circ$  and  $32^\circ$ .
- 6) A triangle with the angles:  $45^\circ$ ,  $56^\circ$  and  $79^\circ$ .
- 7) A triangle with the angles:  $99^\circ$ ,  $58^\circ$  and  $23^\circ$ .
- 8) A triangle with the angles:  $19^\circ$ ,  $102^\circ$  and  $30^\circ$ .
- 9) A triangle with the angles:  $15^\circ$ ,  $60^\circ$  and  $105^\circ$ .
- 10) A triangle with the angles:  $3^\circ$ ,  $75^\circ$  and  $102^\circ$ .
- 11) A triangle with the sides: 5cm, 7cm and 4cm.
- 12) A triangle with the sides: 4cm, 8cm and 3cm.
- 13) A triangle with the sides: 8ft, 8ft and 8ft.
- 14) A triangle with the sides: 5cm, 5cm and 4cm.
- 15) A triangle with the sides: 6in, 5in and 4in.
- 16) A triangle with the sides: 4ft, 9ft and 3ft.
- 17) A triangle with the sides: 4cm, 10cm and 3cm.
- 18) A triangle with the sides: 7in, 7in and 6in.
- 19) A triangle with the sides: 7ft, 2ft and 1ft.
- 20) A triangle with the sides: 6ft, 6ft and 5ft.

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- 1) A triangle with the angles:  $56^\circ$ ,  $67^\circ$  and  $49^\circ$ .
- 2) A triangle with the angles:  $104^\circ$ ,  $39^\circ$  and  $37^\circ$ .
- 3) A triangle with the angles:  $11^\circ$ ,  $6^\circ$  and  $141^\circ$ .
- 4) A triangle with the angles:  $19^\circ$ ,  $51^\circ$  and  $97^\circ$ .
- 5) A triangle with the angles:  $19^\circ$ ,  $129^\circ$  and  $32^\circ$ .
- 6) A triangle with the angles:  $45^\circ$ ,  $56^\circ$  and  $79^\circ$ .
- 7) A triangle with the angles:  $99^\circ$ ,  $58^\circ$  and  $23^\circ$ .
- 8) A triangle with the angles:  $19^\circ$ ,  $102^\circ$  and  $30^\circ$ .
- 9) A triangle with the angles:  $15^\circ$ ,  $60^\circ$  and  $105^\circ$ .
- 10) A triangle with the angles:  $3^\circ$ ,  $75^\circ$  and  $102^\circ$ .
- 11) A triangle with the sides: 5cm, 7cm and 4cm.
- 12) A triangle with the sides: 4cm, 8cm and 3cm.
- 13) A triangle with the sides: 8ft, 8ft and 8ft.
- 14) A triangle with the sides: 5cm, 5cm and 4cm.
- 15) A triangle with the sides: 6in, 5in and 4in.
- 16) A triangle with the sides: 4ft, 9ft and 3ft.
- 17) A triangle with the sides: 4cm, 10cm and 3cm.
- 18) A triangle with the sides: 7in, 7in and 6in.
- 19) A triangle with the sides: 7ft, 2ft and 1ft.
- 20) A triangle with the sides: 6ft, 6ft and 5ft.

Answers

1.     **i**
2.     **p**
3.     **i**
4.     **i**
5.     **p**
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19.     **i**
20.     **p**



Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $5^\circ$ ,  $113^\circ$  and  $41^\circ$ .
- 2) A triangle with the angles:  $34^\circ$ ,  $7^\circ$  and  $109^\circ$ .
- 3) A triangle with the angles:  $122^\circ$ ,  $9^\circ$  and  $44^\circ$ .
- 4) A triangle with the angles:  $82^\circ$ ,  $75^\circ$  and  $23^\circ$ .
- 5) A triangle with the angles:  $46^\circ$ ,  $4^\circ$  and  $117^\circ$ .
- 6) A triangle with the angles:  $4^\circ$ ,  $55^\circ$  and  $95^\circ$ .
- 7) A triangle with the angles:  $134^\circ$ ,  $39^\circ$  and  $7^\circ$ .
- 8) A triangle with the angles:  $38^\circ$ ,  $1^\circ$  and  $141^\circ$ .
- 9) A triangle with the angles:  $62^\circ$ ,  $50^\circ$  and  $43^\circ$ .
- 10) A triangle with the angles:  $33^\circ$ ,  $17^\circ$  and  $130^\circ$ .
- 11) A triangle with the sides: 3ft, 7ft and 2ft.
- 12) A triangle with the sides: 5mm, 2mm and 6mm.
- 13) A triangle with the sides: 9cm, 8cm and 7cm.
- 14) A triangle with the sides: 5mm, 7mm and 4mm.
- 15) A triangle with the sides: 7cm, 8cm and 6cm.
- 16) A triangle with the sides: 10ft, 2ft and 1ft.
- 17) A triangle with the sides: 7in, 7in and 8in.
- 18) A triangle with the sides: 8mm, 2mm and 9mm.
- 19) A triangle with the sides: 9ft, 9ft and 3ft.
- 20) A triangle with the sides: 6mm, 8mm and 9mm.

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Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $5^\circ$ ,  $113^\circ$  and  $41^\circ$ .
- 2) A triangle with the angles:  $34^\circ$ ,  $7^\circ$  and  $109^\circ$ .
- 3) A triangle with the angles:  $122^\circ$ ,  $9^\circ$  and  $44^\circ$ .
- 4) A triangle with the angles:  $82^\circ$ ,  $75^\circ$  and  $23^\circ$ .
- 5) A triangle with the angles:  $46^\circ$ ,  $4^\circ$  and  $117^\circ$ .
- 6) A triangle with the angles:  $4^\circ$ ,  $55^\circ$  and  $95^\circ$ .
- 7) A triangle with the angles:  $134^\circ$ ,  $39^\circ$  and  $7^\circ$ .
- 8) A triangle with the angles:  $38^\circ$ ,  $1^\circ$  and  $141^\circ$ .
- 9) A triangle with the angles:  $62^\circ$ ,  $50^\circ$  and  $43^\circ$ .
- 10) A triangle with the angles:  $33^\circ$ ,  $17^\circ$  and  $130^\circ$ .
- 11) A triangle with the sides: 3ft, 7ft and 2ft.
- 12) A triangle with the sides: 5mm, 2mm and 6mm.
- 13) A triangle with the sides: 9cm, 8cm and 7cm.
- 14) A triangle with the sides: 5mm, 7mm and 4mm.
- 15) A triangle with the sides: 7cm, 8cm and 6cm.
- 16) A triangle with the sides: 10ft, 2ft and 1ft.
- 17) A triangle with the sides: 7in, 7in and 8in.
- 18) A triangle with the sides: 8mm, 2mm and 9mm.
- 19) A triangle with the sides: 9ft, 9ft and 3ft.
- 20) A triangle with the sides: 6mm, 8mm and 9mm.

Answers

1.     **i**
2.     **i**
3.     **i**
4.     **p**
5.     **i**
6.     **i**
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19.     **p**
20.     **p**





Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $121^\circ$ ,  $12^\circ$  and  $47^\circ$ .
- 2) A triangle with the angles:  $1^\circ$ ,  $5^\circ$  and  $174^\circ$ .
- 3) A triangle with the angles:  $67^\circ$ ,  $2^\circ$  and  $102^\circ$ .
- 4) A triangle with the angles:  $15^\circ$ ,  $38^\circ$  and  $127^\circ$ .
- 5) A triangle with the angles:  $45^\circ$ ,  $14^\circ$  and  $101^\circ$ .
- 6) A triangle with the angles:  $16^\circ$ ,  $112^\circ$  and  $52^\circ$ .
- 7) A triangle with the angles:  $25^\circ$ ,  $141^\circ$  and  $14^\circ$ .
- 8) A triangle with the angles:  $5^\circ$ ,  $144^\circ$  and  $31^\circ$ .
- 9) A triangle with the angles:  $133^\circ$ ,  $9^\circ$  and  $34^\circ$ .
- 10) A triangle with the angles:  $76^\circ$ ,  $50^\circ$  and  $26^\circ$ .
- 11) A triangle with the sides: 3mm, 8mm and 2mm.
- 12) A triangle with the sides: 9mm, 5mm and 4mm.
- 13) A triangle with the sides: 8ft, 3ft and 9ft.
- 14) A triangle with the sides: 8ft, 2ft and 1ft.
- 15) A triangle with the sides: 10in, 2in and 1in.
- 16) A triangle with the sides: 3in, 3in and 1in.
- 17) A triangle with the sides: 6mm, 8mm and 5mm.
- 18) A triangle with the sides: 5cm, 3cm and 2cm.
- 19) A triangle with the sides: 10cm, 3cm and 2cm.
- 20) A triangle with the sides: 2mm, 10mm and 11mm.

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- 2) A triangle with the angles:  $1^\circ$ ,  $5^\circ$  and  $174^\circ$ .
- 3) A triangle with the angles:  $67^\circ$ ,  $2^\circ$  and  $102^\circ$ .
- 4) A triangle with the angles:  $15^\circ$ ,  $38^\circ$  and  $127^\circ$ .
- 5) A triangle with the angles:  $45^\circ$ ,  $14^\circ$  and  $101^\circ$ .
- 6) A triangle with the angles:  $16^\circ$ ,  $112^\circ$  and  $52^\circ$ .
- 7) A triangle with the angles:  $25^\circ$ ,  $141^\circ$  and  $14^\circ$ .
- 8) A triangle with the angles:  $5^\circ$ ,  $144^\circ$  and  $31^\circ$ .
- 9) A triangle with the angles:  $133^\circ$ ,  $9^\circ$  and  $34^\circ$ .
- 10) A triangle with the angles:  $76^\circ$ ,  $50^\circ$  and  $26^\circ$ .
- 11) A triangle with the sides: 3mm, 8mm and 2mm.
- 12) A triangle with the sides: 9mm, 5mm and 4mm.
- 13) A triangle with the sides: 8ft, 3ft and 9ft.
- 14) A triangle with the sides: 8ft, 2ft and 1ft.
- 15) A triangle with the sides: 10in, 2in and 1in.
- 16) A triangle with the sides: 3in, 3in and 1in.
- 17) A triangle with the sides: 6mm, 8mm and 5mm.
- 18) A triangle with the sides: 5cm, 3cm and 2cm.
- 19) A triangle with the sides: 10cm, 3cm and 2cm.
- 20) A triangle with the sides: 2mm, 10mm and 11mm.

Answers

1.     **p**
2.     **p**
3.     **i**
4.     **p**
5.     **i**
6.     **p**
7.     **p**
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17.     **p**
18.     **i**
19.     **i**
20.     **p**



Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $22^\circ$ ,  $8^\circ$  and  $130^\circ$ .
- 2) A triangle with the angles:  $14^\circ$ ,  $57^\circ$  and  $103^\circ$ .
- 3) A triangle with the angles:  $31^\circ$ ,  $131^\circ$  and  $18^\circ$ .
- 4) A triangle with the angles:  $29^\circ$ ,  $83^\circ$  and  $53^\circ$ .
- 5) A triangle with the angles:  $100^\circ$ ,  $14^\circ$  and  $66^\circ$ .
- 6) A triangle with the angles:  $53^\circ$ ,  $51^\circ$  and  $76^\circ$ .
- 7) A triangle with the angles:  $12^\circ$ ,  $73^\circ$  and  $95^\circ$ .
- 8) A triangle with the angles:  $70^\circ$ ,  $34^\circ$  and  $76^\circ$ .
- 9) A triangle with the angles:  $4^\circ$ ,  $170^\circ$  and  $6^\circ$ .
- 10) A triangle with the angles:  $46^\circ$ ,  $115^\circ$  and  $19^\circ$ .
- 11) A triangle with the sides: 6cm, 2cm and 1cm.
- 12) A triangle with the sides: 9cm, 9cm and 9cm.
- 13) A triangle with the sides: 7cm, 4cm and 8cm.
- 14) A triangle with the sides: 8cm, 6cm and 9cm.
- 15) A triangle with the sides: 9mm, 9mm and 9mm.
- 16) A triangle with the sides: 7ft, 5ft and 4ft.
- 17) A triangle with the sides: 4in, 3in and 5in.
- 18) A triangle with the sides: 5ft, 4ft and 6ft.
- 19) A triangle with the sides: 9ft, 7ft and 10ft.
- 20) A triangle with the sides: 5cm, 6cm and 4cm.

Answers

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18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_



Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $22^\circ$ ,  $8^\circ$  and  $130^\circ$ .
- 2) A triangle with the angles:  $14^\circ$ ,  $57^\circ$  and  $103^\circ$ .
- 3) A triangle with the angles:  $31^\circ$ ,  $131^\circ$  and  $18^\circ$ .
- 4) A triangle with the angles:  $29^\circ$ ,  $83^\circ$  and  $53^\circ$ .
- 5) A triangle with the angles:  $100^\circ$ ,  $14^\circ$  and  $66^\circ$ .
- 6) A triangle with the angles:  $53^\circ$ ,  $51^\circ$  and  $76^\circ$ .
- 7) A triangle with the angles:  $12^\circ$ ,  $73^\circ$  and  $95^\circ$ .
- 8) A triangle with the angles:  $70^\circ$ ,  $34^\circ$  and  $76^\circ$ .
- 9) A triangle with the angles:  $4^\circ$ ,  $170^\circ$  and  $6^\circ$ .
- 10) A triangle with the angles:  $46^\circ$ ,  $115^\circ$  and  $19^\circ$ .
- 11) A triangle with the sides: 6cm, 2cm and 1cm.
- 12) A triangle with the sides: 9cm, 9cm and 9cm.
- 13) A triangle with the sides: 7cm, 4cm and 8cm.
- 14) A triangle with the sides: 8cm, 6cm and 9cm.
- 15) A triangle with the sides: 9mm, 9mm and 9mm.
- 16) A triangle with the sides: 7ft, 5ft and 4ft.
- 17) A triangle with the sides: 4in, 3in and 5in.
- 18) A triangle with the sides: 5ft, 4ft and 6ft.
- 19) A triangle with the sides: 9ft, 7ft and 10ft.
- 20) A triangle with the sides: 5cm, 6cm and 4cm.

Answers

1.     **i**
2.     **i**
3.     **p**
4.     **i**
5.     **p**
6.     **p**
7.     **p**
8.     **p**
9.     **p**
10.     **p**
11.     **i**
12.     **p**
13.     **p**
14.     **p**
15.     **p**
16.     **p**
17.     **p**
18.     **p**
19.     **p**
20.     **p**



Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $32^\circ$ ,  $87^\circ$  and  $61^\circ$ .
- 2) A triangle with the angles:  $61^\circ$ ,  $44^\circ$  and  $58^\circ$ .
- 3) A triangle with the angles:  $46^\circ$ ,  $92^\circ$  and  $35^\circ$ .
- 4) A triangle with the angles:  $42^\circ$ ,  $25^\circ$  and  $113^\circ$ .
- 5) A triangle with the angles:  $8^\circ$ ,  $3^\circ$  and  $169^\circ$ .
- 6) A triangle with the angles:  $146^\circ$ ,  $29^\circ$  and  $5^\circ$ .
- 7) A triangle with the angles:  $42^\circ$ ,  $20^\circ$  and  $105^\circ$ .
- 8) A triangle with the angles:  $14^\circ$ ,  $143^\circ$  and  $23^\circ$ .
- 9) A triangle with the angles:  $83^\circ$ ,  $34^\circ$  and  $54^\circ$ .
- 10) A triangle with the angles:  $35^\circ$ ,  $6^\circ$  and  $127^\circ$ .
- 11) A triangle with the sides: 4ft, 2ft and 5ft.
- 12) A triangle with the sides: 1ft, 1ft and 2ft.
- 13) A triangle with the sides: 2ft, 10ft and 1ft.
- 14) A triangle with the sides: 3in, 3in and 3in.
- 15) A triangle with the sides: 4mm, 6mm and 3mm.
- 16) A triangle with the sides: 7mm, 4mm and 3mm.
- 17) A triangle with the sides: 4in, 6in and 3in.
- 18) A triangle with the sides: 9cm, 2cm and 1cm.
- 19) A triangle with the sides: 4ft, 10ft and 3ft.
- 20) A triangle with the sides: 6cm, 7cm and 8cm.

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19. \_\_\_\_\_
20. \_\_\_\_\_



Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $32^\circ$ ,  $87^\circ$  and  $61^\circ$ .
- 2) A triangle with the angles:  $61^\circ$ ,  $44^\circ$  and  $58^\circ$ .
- 3) A triangle with the angles:  $46^\circ$ ,  $92^\circ$  and  $35^\circ$ .
- 4) A triangle with the angles:  $42^\circ$ ,  $25^\circ$  and  $113^\circ$ .
- 5) A triangle with the angles:  $8^\circ$ ,  $3^\circ$  and  $169^\circ$ .
- 6) A triangle with the angles:  $146^\circ$ ,  $29^\circ$  and  $5^\circ$ .
- 7) A triangle with the angles:  $42^\circ$ ,  $20^\circ$  and  $105^\circ$ .
- 8) A triangle with the angles:  $14^\circ$ ,  $143^\circ$  and  $23^\circ$ .
- 9) A triangle with the angles:  $83^\circ$ ,  $34^\circ$  and  $54^\circ$ .
- 10) A triangle with the angles:  $35^\circ$ ,  $6^\circ$  and  $127^\circ$ .
- 11) A triangle with the sides: 4ft, 2ft and 5ft.
- 12) A triangle with the sides: 1ft, 1ft and 2ft.
- 13) A triangle with the sides: 2ft, 10ft and 1ft.
- 14) A triangle with the sides: 3in, 3in and 3in.
- 15) A triangle with the sides: 4mm, 6mm and 3mm.
- 16) A triangle with the sides: 7mm, 4mm and 3mm.
- 17) A triangle with the sides: 4in, 6in and 3in.
- 18) A triangle with the sides: 9cm, 2cm and 1cm.
- 19) A triangle with the sides: 4ft, 10ft and 3ft.
- 20) A triangle with the sides: 6cm, 7cm and 8cm.

Answers

1.     **p**
2.     **i**
3.     **i**
4.     **p**
5.     **p**
6.     **p**
7.     **i**
8.     **p**
9.     **i**
10.     **i**
11.     **p**
12.     **i**
13.     **i**
14.     **p**
15.     **p**
16.     **i**
17.     **p**
18.     **i**
19.     **i**
20.     **p**



Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $51^\circ$ ,  $9^\circ$  and  $120^\circ$ .
- 2) A triangle with the angles:  $126^\circ$ ,  $12^\circ$  and  $35^\circ$ .
- 3) A triangle with the angles:  $1^\circ$ ,  $2^\circ$  and  $157^\circ$ .
- 4) A triangle with the angles:  $18^\circ$ ,  $9^\circ$  and  $148^\circ$ .
- 5) A triangle with the angles:  $91^\circ$ ,  $65^\circ$  and  $10^\circ$ .
- 6) A triangle with the angles:  $89^\circ$ ,  $67^\circ$  and  $11^\circ$ .
- 7) A triangle with the angles:  $53^\circ$ ,  $94^\circ$  and  $12^\circ$ .
- 8) A triangle with the angles:  $84^\circ$ ,  $6^\circ$  and  $90^\circ$ .
- 9) A triangle with the angles:  $59^\circ$ ,  $94^\circ$  and  $1^\circ$ .
- 10) A triangle with the angles:  $57^\circ$ ,  $7^\circ$  and  $116^\circ$ .
- 11) A triangle with the sides: 7in, 7in and 7in.
- 12) A triangle with the sides: 10mm, 10mm and 10mm.
- 13) A triangle with the sides: 6mm, 2mm and 1mm.
- 14) A triangle with the sides: 2ft, 10ft and 1ft.
- 15) A triangle with the sides: 6cm, 4cm and 3cm.
- 16) A triangle with the sides: 9mm, 3mm and 2mm.
- 17) A triangle with the sides: 5in, 5in and 5in.
- 18) A triangle with the sides: 9in, 9in and 9in.
- 19) A triangle with the sides: 4in, 2in and 5in.
- 20) A triangle with the sides: 3cm, 5cm and 6cm.

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
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Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $51^\circ$ ,  $9^\circ$  and  $120^\circ$ .
- 2) A triangle with the angles:  $126^\circ$ ,  $12^\circ$  and  $35^\circ$ .
- 3) A triangle with the angles:  $1^\circ$ ,  $2^\circ$  and  $157^\circ$ .
- 4) A triangle with the angles:  $18^\circ$ ,  $9^\circ$  and  $148^\circ$ .
- 5) A triangle with the angles:  $91^\circ$ ,  $65^\circ$  and  $10^\circ$ .
- 6) A triangle with the angles:  $89^\circ$ ,  $67^\circ$  and  $11^\circ$ .
- 7) A triangle with the angles:  $53^\circ$ ,  $94^\circ$  and  $12^\circ$ .
- 8) A triangle with the angles:  $84^\circ$ ,  $6^\circ$  and  $90^\circ$ .
- 9) A triangle with the angles:  $59^\circ$ ,  $94^\circ$  and  $1^\circ$ .
- 10) A triangle with the angles:  $57^\circ$ ,  $7^\circ$  and  $116^\circ$ .
- 11) A triangle with the sides: 7in, 7in and 7in.
- 12) A triangle with the sides: 10mm, 10mm and 10mm.
- 13) A triangle with the sides: 6mm, 2mm and 1mm.
- 14) A triangle with the sides: 2ft, 10ft and 1ft.
- 15) A triangle with the sides: 6cm, 4cm and 3cm.
- 16) A triangle with the sides: 9mm, 3mm and 2mm.
- 17) A triangle with the sides: 5in, 5in and 5in.
- 18) A triangle with the sides: 9in, 9in and 9in.
- 19) A triangle with the sides: 4in, 2in and 5in.
- 20) A triangle with the sides: 3cm, 5cm and 6cm.

Answers

1.     **p**
2.     **i**
3.     **i**
4.     **i**
5.     **i**
6.     **i**
7.     **i**
8.     **p**
9.     **i**
10.     **p**
11.     **p**
12.     **p**
13.     **i**
14.     **i**
15.     **p**
16.     **i**
17.     **p**
18.     **p**
19.     **p**
20.     **p**





Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $66^\circ$ ,  $20^\circ$  and  $79^\circ$ .
- 2) A triangle with the angles:  $3^\circ$ ,  $169^\circ$  and  $8^\circ$ .
- 3) A triangle with the angles:  $92^\circ$ ,  $46^\circ$  and  $25^\circ$ .
- 4) A triangle with the angles:  $28^\circ$ ,  $72^\circ$  and  $80^\circ$ .
- 5) A triangle with the angles:  $41^\circ$ ,  $80^\circ$  and  $32^\circ$ .
- 6) A triangle with the angles:  $1^\circ$ ,  $1^\circ$  and  $178^\circ$ .
- 7) A triangle with the angles:  $22^\circ$ ,  $121^\circ$  and  $22^\circ$ .
- 8) A triangle with the angles:  $21^\circ$ ,  $35^\circ$  and  $103^\circ$ .
- 9) A triangle with the angles:  $67^\circ$ ,  $43^\circ$  and  $40^\circ$ .
- 10) A triangle with the angles:  $41^\circ$ ,  $14^\circ$  and  $125^\circ$ .
- 11) A triangle with the sides: 4in, 4in and 6in.
- 12) A triangle with the sides: 4mm, 4mm and 4mm.
- 13) A triangle with the sides: 4ft, 8ft and 3ft.
- 14) A triangle with the sides: 7mm, 6mm and 8mm.
- 15) A triangle with the sides: 3cm, 9cm and 2cm.
- 16) A triangle with the sides: 10in, 9in and 11in.
- 17) A triangle with the sides: 6cm, 8cm and 5cm.
- 18) A triangle with the sides: 2ft, 2ft and 4ft.
- 19) A triangle with the sides: 7mm, 10mm and 6mm.
- 20) A triangle with the sides: 4ft, 4ft and 3ft.

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19. \_\_\_\_\_
20. \_\_\_\_\_



Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $66^\circ$ ,  $20^\circ$  and  $79^\circ$ .
- 2) A triangle with the angles:  $3^\circ$ ,  $169^\circ$  and  $8^\circ$ .
- 3) A triangle with the angles:  $92^\circ$ ,  $46^\circ$  and  $25^\circ$ .
- 4) A triangle with the angles:  $28^\circ$ ,  $72^\circ$  and  $80^\circ$ .
- 5) A triangle with the angles:  $41^\circ$ ,  $80^\circ$  and  $32^\circ$ .
- 6) A triangle with the angles:  $1^\circ$ ,  $1^\circ$  and  $178^\circ$ .
- 7) A triangle with the angles:  $22^\circ$ ,  $121^\circ$  and  $22^\circ$ .
- 8) A triangle with the angles:  $21^\circ$ ,  $35^\circ$  and  $103^\circ$ .
- 9) A triangle with the angles:  $67^\circ$ ,  $43^\circ$  and  $40^\circ$ .
- 10) A triangle with the angles:  $41^\circ$ ,  $14^\circ$  and  $125^\circ$ .
- 11) A triangle with the sides: 4in, 4in and 6in.
- 12) A triangle with the sides: 4mm, 4mm and 4mm.
- 13) A triangle with the sides: 4ft, 8ft and 3ft.
- 14) A triangle with the sides: 7mm, 6mm and 8mm.
- 15) A triangle with the sides: 3cm, 9cm and 2cm.
- 16) A triangle with the sides: 10in, 9in and 11in.
- 17) A triangle with the sides: 6cm, 8cm and 5cm.
- 18) A triangle with the sides: 2ft, 2ft and 4ft.
- 19) A triangle with the sides: 7mm, 10mm and 6mm.
- 20) A triangle with the sides: 4ft, 4ft and 3ft.

Answers

1.     **i**
2.     **p**
3.     **i**
4.     **p**
5.     **i**
6.     **p**
7.     **i**
8.     **i**
9.     **i**
10.     **p**
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17.     **p**
18.     **i**
19.     **p**
20.     **p**



Determine if the statement is possible(p) or impossible(i).

Answers

- 1) A triangle with the angles:  $38^\circ$ ,  $48^\circ$  and  $94^\circ$ .
- 2) A triangle with the angles:  $24^\circ$ ,  $42^\circ$  and  $114^\circ$ .
- 3) A triangle with the angles:  $151^\circ$ ,  $16^\circ$  and  $7^\circ$ .
- 4) A triangle with the angles:  $49^\circ$ ,  $83^\circ$  and  $48^\circ$ .
- 5) A triangle with the angles:  $93^\circ$ ,  $57^\circ$  and  $5^\circ$ .
- 6) A triangle with the angles:  $30^\circ$ ,  $70^\circ$  and  $59^\circ$ .
- 7) A triangle with the angles:  $47^\circ$ ,  $22^\circ$  and  $98^\circ$ .
- 8) A triangle with the angles:  $40^\circ$ ,  $65^\circ$  and  $51^\circ$ .
- 9) A triangle with the angles:  $50^\circ$ ,  $84^\circ$  and  $46^\circ$ .
- 10) A triangle with the angles:  $48^\circ$ ,  $33^\circ$  and  $99^\circ$ .
- 11) A triangle with the sides: 3cm, 3cm and 3cm.
- 12) A triangle with the sides: 10in, 10in and 10in.
- 13) A triangle with the sides: 3ft, 3ft and 3ft.
- 14) A triangle with the sides: 5mm, 5mm and 5mm.
- 15) A triangle with the sides: 10ft, 10ft and 9ft.
- 16) A triangle with the sides: 6cm, 6cm and 6cm.
- 17) A triangle with the sides: 9ft, 4ft and 10ft.
- 18) A triangle with the sides: 10cm, 10cm and 5cm.
- 19) A triangle with the sides: 2in, 6in and 1in.
- 20) A triangle with the sides: 5in, 5in and 5in.

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19. \_\_\_\_\_
20. \_\_\_\_\_



Determine if the statement is possible(p) or impossible(i).

- 1) A triangle with the angles:  $38^\circ$ ,  $48^\circ$  and  $94^\circ$ .
- 2) A triangle with the angles:  $24^\circ$ ,  $42^\circ$  and  $114^\circ$ .
- 3) A triangle with the angles:  $151^\circ$ ,  $16^\circ$  and  $7^\circ$ .
- 4) A triangle with the angles:  $49^\circ$ ,  $83^\circ$  and  $48^\circ$ .
- 5) A triangle with the angles:  $93^\circ$ ,  $57^\circ$  and  $5^\circ$ .
- 6) A triangle with the angles:  $30^\circ$ ,  $70^\circ$  and  $59^\circ$ .
- 7) A triangle with the angles:  $47^\circ$ ,  $22^\circ$  and  $98^\circ$ .
- 8) A triangle with the angles:  $40^\circ$ ,  $65^\circ$  and  $51^\circ$ .
- 9) A triangle with the angles:  $50^\circ$ ,  $84^\circ$  and  $46^\circ$ .
- 10) A triangle with the angles:  $48^\circ$ ,  $33^\circ$  and  $99^\circ$ .
- 11) A triangle with the sides: 3cm, 3cm and 3cm.
- 12) A triangle with the sides: 10in, 10in and 10in.
- 13) A triangle with the sides: 3ft, 3ft and 3ft.
- 14) A triangle with the sides: 5mm, 5mm and 5mm.
- 15) A triangle with the sides: 10ft, 10ft and 9ft.
- 16) A triangle with the sides: 6cm, 6cm and 6cm.
- 17) A triangle with the sides: 9ft, 4ft and 10ft.
- 18) A triangle with the sides: 10cm, 10cm and 5cm.
- 19) A triangle with the sides: 2in, 6in and 1in.
- 20) A triangle with the sides: 5in, 5in and 5in.

Answers

1.     **p**
2.     **p**
3.     **i**
4.     **p**
5.     **i**
6.     **i**
7.     **i**
8.     **i**
9.     **p**
10.     **p**
11.     **p**
12.     **p**
13.     **p**
14.     **p**
15.     **p**
16.     **p**
17.     **p**
18.     **p**
19.     **i**
20.     **p**