



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.

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



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**
9.     **i**
10.     **p**
11.     **p**
12.     **i**
13.     **p**
14.     **p**
15.     **p**
16.     **i**
17.     **p**
18.     **i**
19.     **p**
20.     **p**