

**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. \_\_\_\_\_
2. \_\_\_\_\_
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**Answers**

1. **p**
2. **i**
3. **i**
4. **p**
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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**