

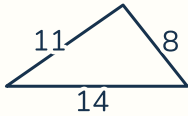
Triangle types — By angles or sides

Name: _____

Date: _____

Name each triangle.

1

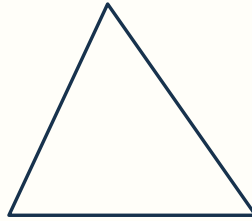


equilateral

isosceles

scalene

2

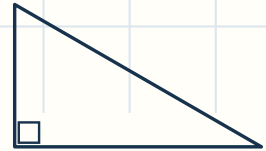


acute

right

obtuse

3



acute

right

obtuse

4



acute

right

obtuse

5

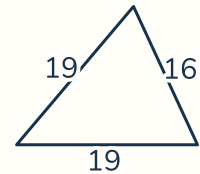


acute

right

obtuse

6

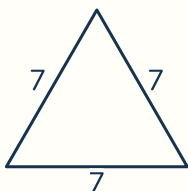


equilateral

isosceles

scalene

7



equilateral

isosceles

scalene

8



acute

right

obtuse



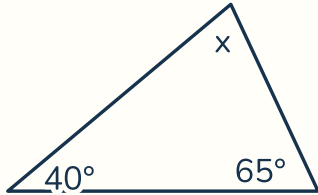
Triangle angle sum — The third angle

Name: _____

Date: _____

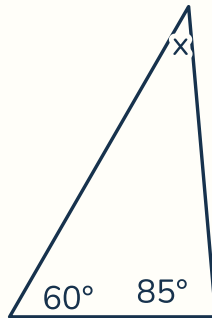
Find the angle marked x . Give each answer in degrees.

1



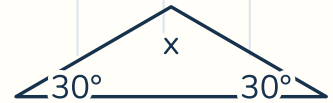
75 degrees

2



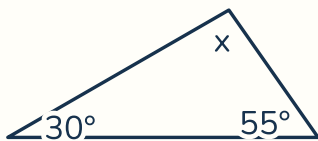
_____ degrees

3



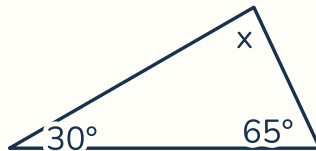
_____ degrees

4



_____ degrees

5



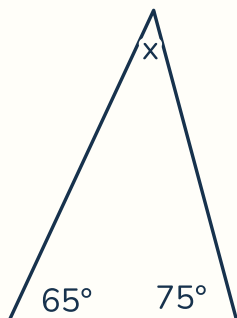
_____ degrees

6



_____ degrees

7



_____ degrees

8



_____ degrees



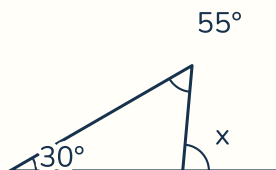
Exterior angle — Sum of the remote angles

Name: _____

Date: _____

Find the angle marked x . Give each answer in degrees.

1



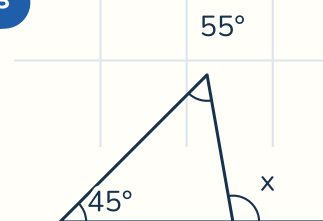
85 degrees

2



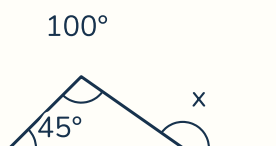
_____ degrees

3



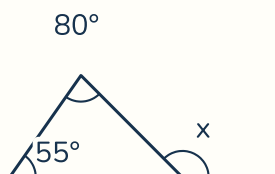
_____ degrees

4



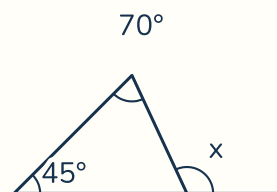
_____ degrees

5



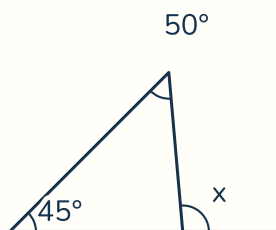
_____ degrees

6



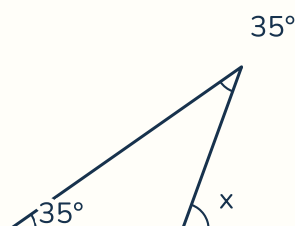
_____ degrees

7



_____ degrees

8



_____ degrees



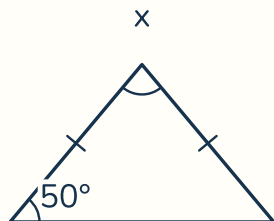
Isosceles angles — The two base angles are equal

Name: _____

Date: _____

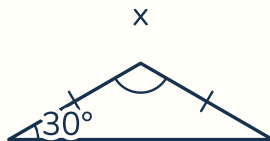
Find the angle marked x. The ticks mark the two equal sides.

1



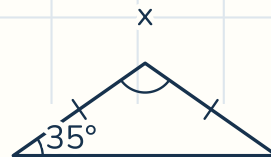
80 degrees

2



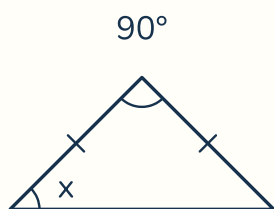
_____ degrees

3



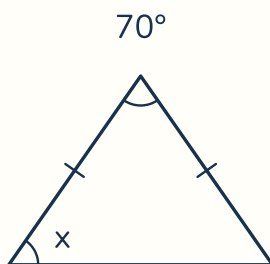
_____ degrees

4



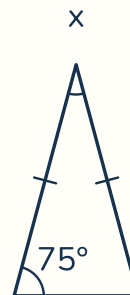
_____ degrees

5



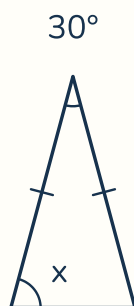
_____ degrees

6



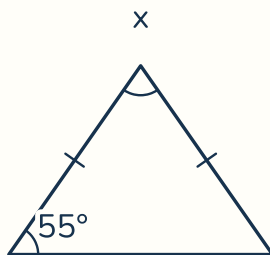
_____ degrees

7

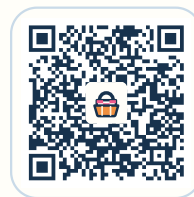


_____ degrees

8



_____ degrees



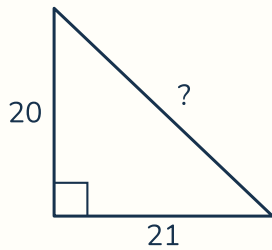
Pythagoras — Both directions

Name: _____

Date: _____

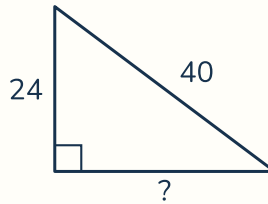
Find the missing side. All lengths are in centimeters.

1



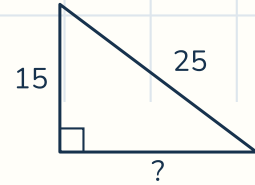
29 cm

2



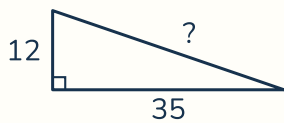
_____ cm

3



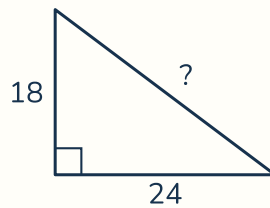
_____ cm

4



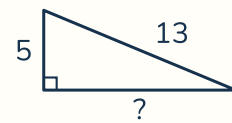
_____ cm

5



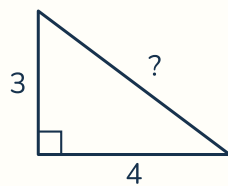
_____ cm

6



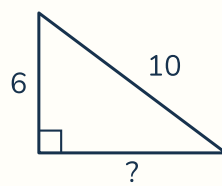
_____ cm

7



_____ cm

8



_____ cm



Power Pack · Triangles — Answer key

Triangle types

- | | | | |
|---|---|---|---|
| 1. 8, 11, 14: scalene | 2. 55° , 60° , 65° : acute | 3. 30° , 60° , 90° : right | 4. 20° , 50° , 110° : obtuse |
| 5. 20° , 40° , 120° : obtuse | 6. 16, 19, 19: isosceles | 7. 7, 7, 7: equilateral | 8. 20° , 70° , 90° : right |

Triangle angle sum

- | | | | |
|---|---|---|---|
| 1. $40^\circ + 65^\circ = 105^\circ$: 75° | 2. $60^\circ + 85^\circ = 145^\circ$: 35° | 3. $30^\circ + 30^\circ = 60^\circ$: 120° | 4. $30^\circ + 55^\circ = 85^\circ$: 95° |
| 5. $30^\circ + 65^\circ = 95^\circ$: 85° | 6. $25^\circ + 40^\circ = 65^\circ$: 115° | 7. $65^\circ + 75^\circ = 140^\circ$: 40° | 8. $35^\circ + 35^\circ = 70^\circ$: 110° |

Exterior angle

- | | | | |
|--|---|--|---|
| 1. $30^\circ + 55^\circ$: 85° | 2. $25^\circ + 100^\circ$: 125° | 3. $45^\circ + 55^\circ$: 100° | 4. $45^\circ + 100^\circ$: 145° |
| 5. $55^\circ + 80^\circ$: 135° | 6. $45^\circ + 70^\circ$: 115° | 7. $45^\circ + 50^\circ$: 95° | 8. $35^\circ + 35^\circ$: 70° |

Isosceles angles

- | | | | |
|---------------------------------|----------------------------------|----------------------------------|---------------------------------|
| 1. base 50° : 80° | 2. base 30° : 120° | 3. base 35° : 110° | 4. apex 90° : 45° |
| 5. apex 70° : 55° | 6. base 75° : 30° | 7. apex 30° : 75° | 8. base 55° : 70° |

Pythagoras

- | | | | |
|-----------------------------------|----------------------------|-------------------------------|-----------------------------------|
| 1. 20, 21, 29 — hypotenuse: 29 cm | 2. 24, 32, 40 — leg: 32 cm | 3. 15, 20, 25 — leg: 20 cm | 4. 12, 35, 37 — hypotenuse: 37 cm |
| 5. 18, 24, 30 — hypotenuse: 30 cm | 6. 5, 12, 13 — leg: 12 cm | 7. 3, 4, 5 — hypotenuse: 5 cm | 8. 6, 8, 10 — leg: 8 cm |

