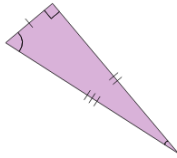




## Determine unknown angles in triangles

1

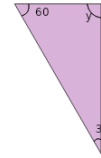
What would the sum of the inside angles on this shape be?



- |        |        |        |
|--------|--------|--------|
| A 330° | B 60°  | C 210° |
| D 270° | E 150° | F 180° |

2

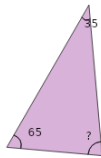
What is known about the angles labelled 60, 30, y



- |                                                               |                                |                                |
|---------------------------------------------------------------|--------------------------------|--------------------------------|
| A Nothing, 60, 30, and y are not related by any geometry rule | B 60, 30, and y add up to 90°  | C 60, 30, and y add up to 360° |
| D 60 and 30 add to y                                          | E 60, 30, and y add up to 180° | F 60 and 30 add to twice y     |

3

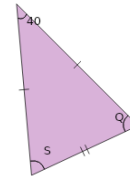
Find the equation that will help you calculate the missing angle of the triangle



- |                       |                       |                          |
|-----------------------|-----------------------|--------------------------|
| A $35 + 65 + ? = 90$  | B $35 + 65 + ? = 360$ | C $2(35 + 65 + ?) = 180$ |
| D $35 + 65 + ? = 180$ | E $35 - 65 - ? = 360$ |                          |

4

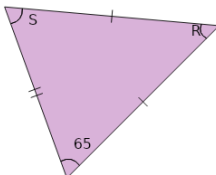
What do we know about angle 'S'?



- |                    |      |      |
|--------------------|------|------|
| A Unable to answer | B 55 | C 60 |
| D 50               | E 70 | F 45 |

5

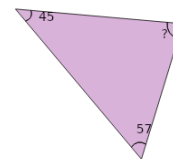
What do we know about angle 'S'?



- |      |      |      |
|------|------|------|
| A 45 | B 50 | C 70 |
| D 65 | E 55 | F 90 |

6

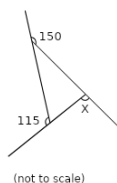
Find the missing angle of the triangle given that the interior angles must add up to 180°



- |       |      |      |
|-------|------|------|
| A 56  | B 78 | C 63 |
| D 101 | E 93 | F 48 |

7

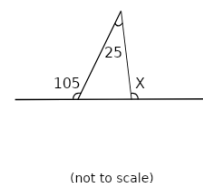
What is angle X?



- |       |       |      |
|-------|-------|------|
| A 105 | B 100 | C 95 |
| D 120 | E 75  | F 70 |

8

What is angle X?



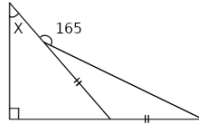
- |       |       |      |
|-------|-------|------|
| A 125 | B 105 | C 85 |
| D 75  | E 100 |      |



## Determine unknown angles in triangles

**9**

What is angle X?



(not to scale)

A 85

B 35

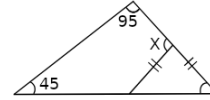
C 45

D 60

E 40

**10**

What is angle X?



(not to scale)

A 70

B 90

C 60

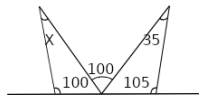
D 80

E 85

F 75

**11**

What is angle X?



(not to scale)

A 65

B 30

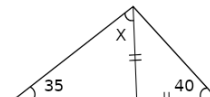
C 15

D 60

E 40

**12**

What is angle X?



(not to scale)

A 90

B 55

C 80

D 65

E 45

F 70