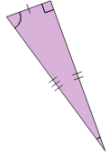


Determine unknown angles in triangles

1

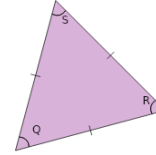
What would the sum of the inside angles on this shape be?



- | | | |
|---------------|---------------|---------------|
| A 240° | B 120° | C 300° |
| D 180° | E 210° | F 270° |

2

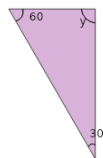
Given the side lengths, what do we know about this triangle's angles?



- | | | |
|---------------------------------|-----------------------|-----------------------|
| A $R = S$ but not Q | B $S = Q = R$ | C $Q = R$ but not S |
| D $S, Q,$ and R are different | E $S = Q$ but not R | |

3

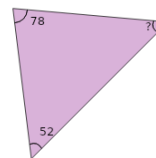
What is known about the angles labelled 60, 30, y



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

4

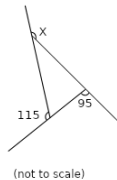
Find the equation that will help you calculate the missing angle of the triangle



- | | | |
|--------------------------|-----------------------|-----------------------|
| A $2(78 + 52 + ?) = 180$ | B $78 + 52 + ? = 90$ | C $78 + 52 + ? = 180$ |
| D $78 - 52 - ? = 360$ | E $78 + 52 + ? = 360$ | |

5

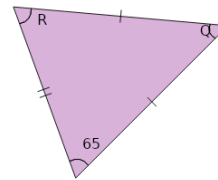
What is angle X?



- | | | |
|-------|-------|-------|
| A 170 | B 135 | C 175 |
| D 145 | E 150 | |

6

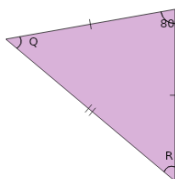
What do we know about angle 'Q'?



- | | | |
|------|------|------|
| A 55 | B 70 | C 45 |
| D 65 | E 50 | F 60 |

7

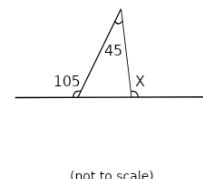
What do we know about angle 'R'?



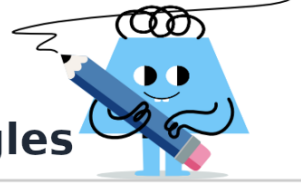
- | | | |
|--------------------|------|------|
| A Unable to answer | B 70 | C 90 |
| D 50 | E 55 | F 45 |

8

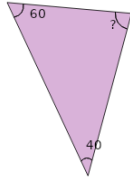
What is angle X?



- | | | |
|-------|-------|-------|
| A 145 | B 125 | C 115 |
| D 140 | E 120 | |

**Determine unknown angles in triangles****9**

Find the missing angle of the triangle



A 80

B 65

C 105

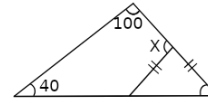
D 50

E 60

F 90

10

What is angle X?



(not to scale)

A 85

B 80

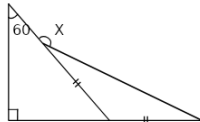
C 105

D 60

E 100

11

What is angle X?



(not to scale)

A 175

B 160

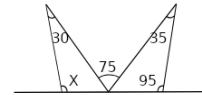
C 145

D 180

E 165

12

What is angle X?



(not to scale)

A 110

B 90

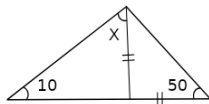
C 115

D 105

E 95

13

What is angle X?



(not to scale)

A 45

B 65

C 85

D 75

E 50

F 70