

PRACTICE Quiz 5.6 Pythagorean Theorem

State if the three side lengths form an acute, obtuse, or right triangle.

1) $\sqrt{69}$, 10, 13

2) $\sqrt{153}$, 4, $\sqrt{170}$

3) 13.2, 17.6, 22

4) 4, 19.8, 19.9

Find the missing side of each right triangle. Side c is the hypotenuse. Sides a and b are the legs. Leave your answers in simplest radical form.

5) $a = \sqrt{197}$, $b = 4$

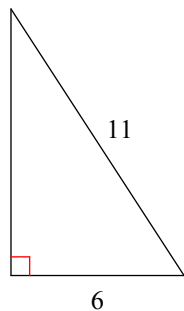
6) $a = 7$, $c = 16$

7) $b = 5$, $c = 12$

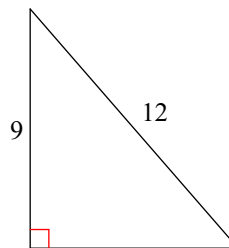
8) $a = 9$, $b = 6$

Find the area of each triangle. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

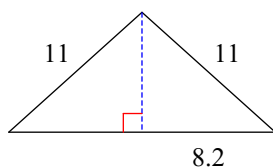
9)



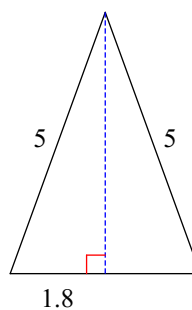
10)



11)



12)



PRACTICE Quiz 5.6 Pythagorean Theorem

State if the three side lengths form an acute, obtuse, or right triangle.

1) $\sqrt{69}$, 10, 13

Right

2) $\sqrt{153}$, 4, $\sqrt{170}$

Obtuse

3) 13.2, 17.6, 22

Right

4) 4, 19.8, 19.9

Acute

Find the missing side of each right triangle. Side c is the hypotenuse. Sides a and b are the legs. Leave your answers in simplest radical form.

5) $a = \sqrt{197}$, $b = 4$

$\sqrt{213}$

6) $a = 7$, $c = 16$

$3\sqrt{23}$

7) $b = 5$, $c = 12$

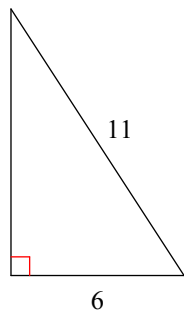
$\sqrt{119}$

8) $a = 9$, $b = 6$

$3\sqrt{13}$

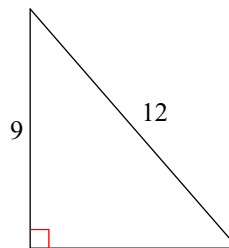
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9)



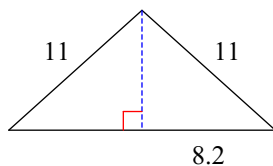
27.6

10)



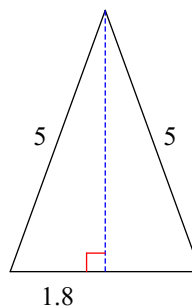
35.6

11)



59.9

12)



8.5