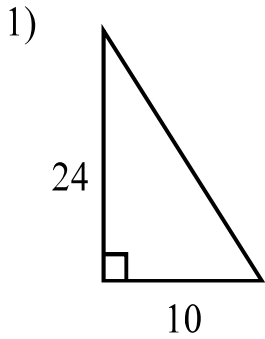
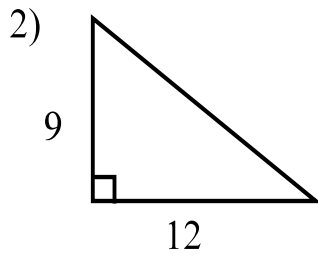


Pythagorean Theorem 2 (KEY)  
Geometry

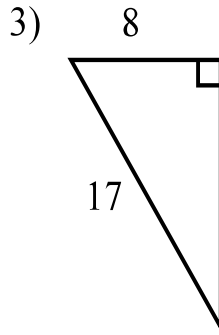
Use the Pythagorean Theorem to find the missing lengths in these right triangles. Put answers in simplest radical form and to the nearest tenth, if the answer isn't a whole number.



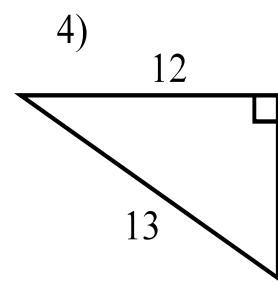
$$c = 26$$



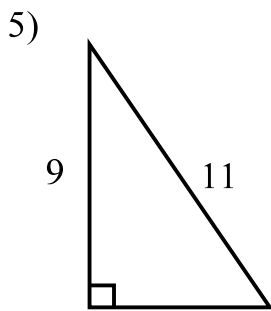
$$c = 15$$



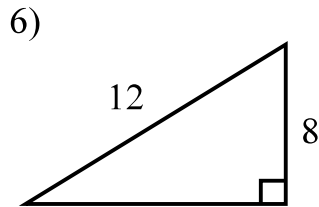
$$b = 15$$



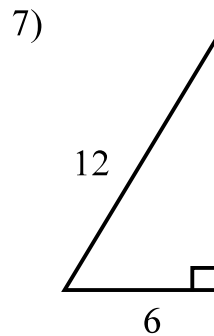
$$a = 5$$



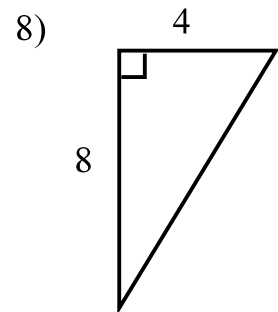
$$a = 2\sqrt{10} = 6.3$$



$$b = 4\sqrt{5} = 8.9$$



$$b = 6\sqrt{3} = 10.4$$



$$c = 4\sqrt{5} = 8.9$$

9)  $a = 12, b = 35, c = ?$

$$c = 37$$

10)  $a = 15, b = 20, c = ?$

$$c = 25$$

11)  $a = 13, b = ?, c = 85$

$$b = 84$$

12)  $a = ?, b = 48, c = 50$

$$b = 14$$

13)  $a = 4, b = ?, c = 6$

$$b = 2\sqrt{5} = 4.5$$

14)  $a = 3, b = 9, c = ?$

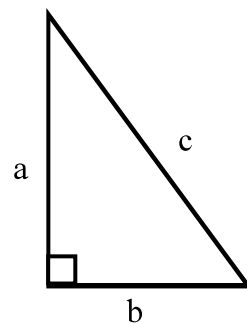
$$c = 3\sqrt{10} = 9.5$$

15)  $a = ?, b = 4, c = 12$

$$a = 8\sqrt{2} = 11.3$$

16)  $a = 10, b = 5, c = ?$

$$c = 5\sqrt{5} = 11.2$$



Will a triangle with sides of the given lengths be a right triangle? If not, is the triangle obtuse or acute?

17) 60, 11, and 61

Right

18) 4, 7, and 8

Not Right. Acute.

19) 37, 12, and 35

Right

20) 15, 10, and 9

Not Right. Obtuse.

21) 20, 15, and 18

Not Right. Acute.

22) 41, 9, and 40

Right