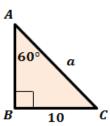
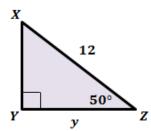
Right Triangle Trigonometry Bell Work

Find the unknown variable in each triangle. Round the answer to the nearest tenth.

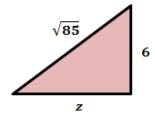
1.



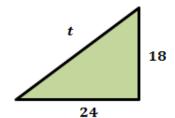
2.



3.



4.

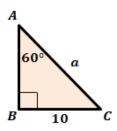


Right Triangle Trigonometry Bell Work

Answers

Find the unknown variable in each triangle. Round the answer to the nearest tenth.

1.



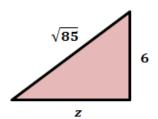
$$sin(A) = \frac{opposite}{hypotenuse}$$

$$sin(60^\circ) = \frac{10}{a}$$

$$a = \frac{10}{\sin(60^\circ)}$$

$$a = 11.5$$

3.



By Pythagorean theorem,

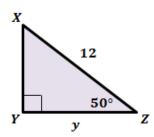
$$(\sqrt{85})^2 = z^2 + 6^2$$

$$85 - 36 = z^2$$

$$z^2 = 49$$

$$z = 7$$

2.



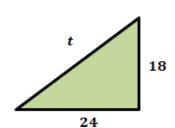
$$cos(Z) = \frac{adjacent}{hypotenuse}$$

$$\cos(50^\circ) = \frac{y}{12}$$

$$y = 12 \times cos(50^{\circ})$$

$$y = 7.7$$

4.



By Pythagorean theorem,

$$t^2 = 24^2 + 18^2$$

$$t^2 = 576 + 324$$

$$t^2 = 900$$

$$t = 30$$