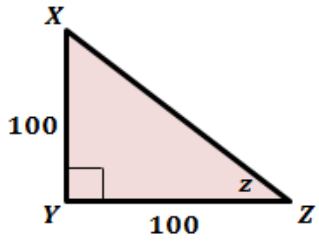
Name: _____ Period: _____ Date: _____

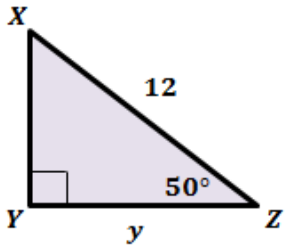
Trigonometry Bell Work

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

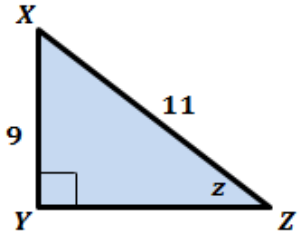
1.



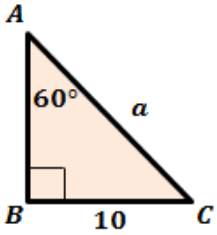
2.



3.



4.



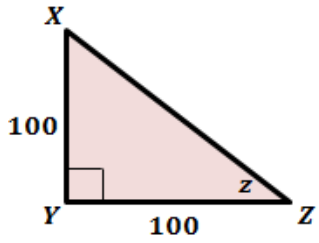
Name: _____ Period: _____ Date: _____

Trigonometry Bell Work

ANSWERS:

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

1.



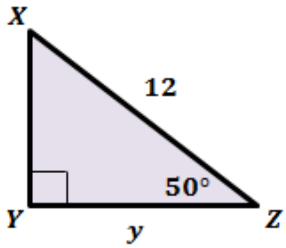
$$tan(z) = \frac{opposite}{adjacent}$$

$$tan(z) = \frac{100}{100}$$

$$z = tan^{-1}(1)$$

$$z = 45°$$

2.



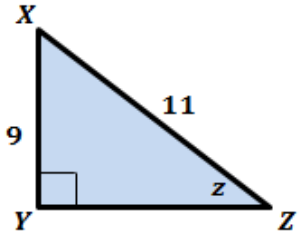
$$cos(Z) = \frac{adjacent}{hypotenuse}$$

$$cos(50°) = \frac{y}{12}$$

$$y = 12 \times cos(50°)$$

$$y = 7.7$$

3.



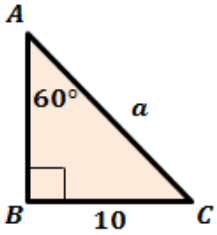
$$sin(z) = \frac{opposite}{hypotenuse}$$

$$sin(z) = \frac{9}{11}$$

$$z = sin^{-1}(0.81)$$

$$z = 54.9°$$

4.



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

$$sin(60°) = \frac{10}{a}$$

$$a = \frac{10}{sin(60°)}$$

$$a = 11.5$$