

Directions: Write the trigonometric ratio as a fraction and as a decimal rounded to the nearest hundredth.

1)  $\sin P$

$$\frac{12}{13} \approx .92$$

2)  $\cos M$

$$\frac{12}{13} \approx .92$$

3)  $\tan P$

$$\frac{12}{5} = 2.4$$

4)  $\cos P$

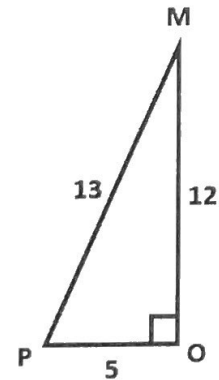
$$\frac{5}{13} \approx .38$$

5)  $\sin M$

$$\frac{5}{13} \approx .38$$

6)  $\tan M$

$$\frac{5}{12} \approx .42$$



Directions: Use your calculator to find each trigonometric ratio to the nearest tenth.

7)  $\cos 25^\circ$

$$.9$$

8)  $\tan 30^\circ$

$$.6$$

9)  $\sin 30^\circ$

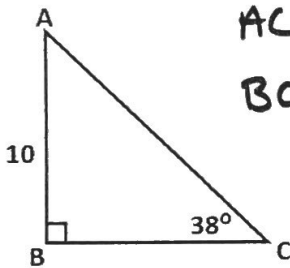
$$.5$$

10)  $\cos 45^\circ$

$$.7$$

Directions: Find each length. Round to the nearest hundredth.

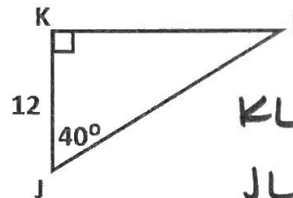
11) AC & BC



$$AC \approx 16.24$$

$$BC \approx 12.8$$

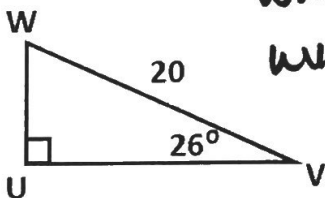
12) KL & JL



$$KL \approx 10.07$$

$$JL \approx 15.66$$

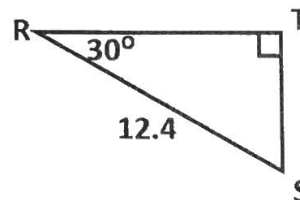
13) WU & UV



$$WU \approx 8.77$$

$$UV \approx 17.98$$

14) RT & TS

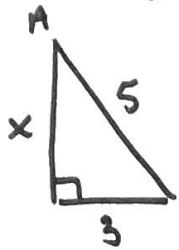


$$RT \approx 10.74$$

$$TS \approx 6.2$$

Directions: Draw a right triangle to represent each trigonometric ratio. Then, find the missing side.

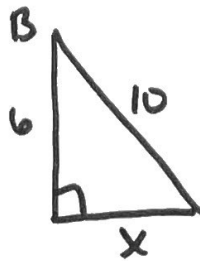
15)  $\sin A = \frac{3}{5}$



$x = 4$

\*use Pyth. Th.

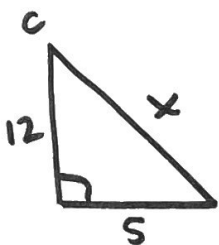
16)  $\cos B = \frac{6}{10}$



$x = 8$

\*use Pyth. Th.

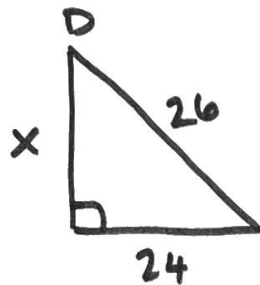
17)  $\tan C = \frac{5}{12}$



$x = 13$

\*use Pyth. Th.

18)  $\sin D = \frac{24}{26}$

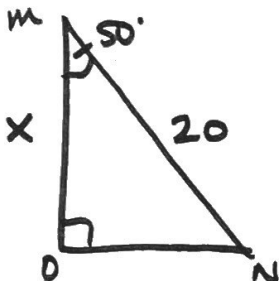


$x = 10$

\*use Pyth. Th.

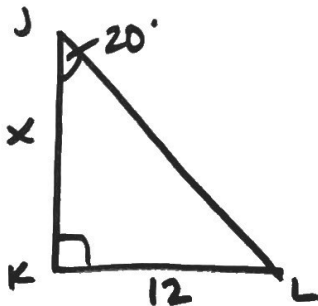
Directions: Draw a triangle to represent the given situation. Then, find each missing side.

19) M, O, and N are the vertices of a right triangle. Angle M is  $50^\circ$  &  $MN = 20$ . MN is the hypotenuse. What is MO to the nearest tenth?



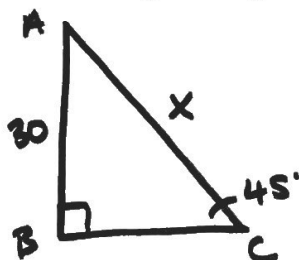
$x = 12.9$

20) J, K, and L are the vertices of a right triangle. Angle J is  $20^\circ$ .  $KL = 12$ . If JK is a leg, what is JK to the nearest hundredth?



$x = 32.97$

21) A, B, and C are the vertices of a right triangle. Angle C is  $45^\circ$  and  $AB = 30$ . If CB is a leg, what is the exact length of AC?



$x = 30\sqrt{2}$