7.4 Practice Solutions

Directions: Find the value of each trigonometric ratio.

$$\cos A = \frac{40}{50} = \boxed{4}$$

Tan A= 30 - 3

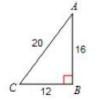
Sin A= 30 - 3

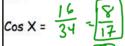


$$Cos A = \frac{16}{20} = \frac{4}{5}$$

Tan A= $\frac{12}{16} = \frac{3}{4}$

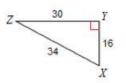
Sin A= $\frac{12}{20} = \sqrt{\frac{3}{5}}$





 $Tan X = \frac{36}{16} = \frac{13}{8}$

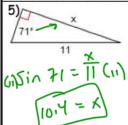
Sin X= 30 - 15

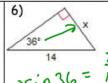


Cos Z =
$$\frac{40}{40}$$

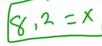
40	-7
41	
	41

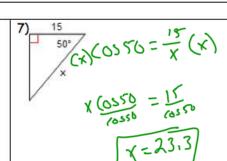
Directions: Find the missing side. Round to the nearest tenth.

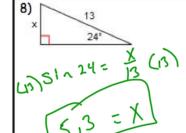


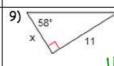


(14)Sin36= X/(14)

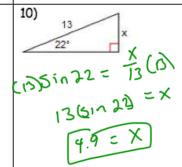


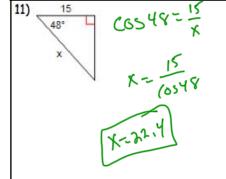


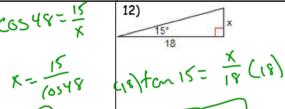


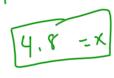


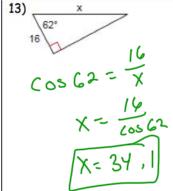
tan 58= 11

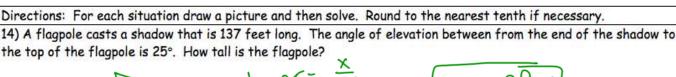


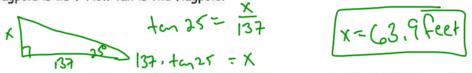




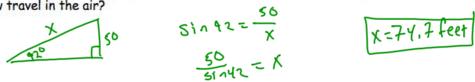








15) An archer shoots an arrow with an angle of elevation of 42° at a target that is 50 feet off the ground. How far did the arrow travel in the air?



16) An escalator has a vertical rise of 196 feet and rises at an angle of 10.4°. How long is the escalator?

