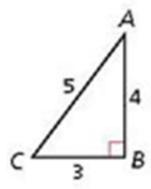
## 8.2 Day 1 Homework Page 545 #3-17 Odd, 18-21, 43, 48-49

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

3. 
$$\sin C + \frac{0}{4} = .80$$

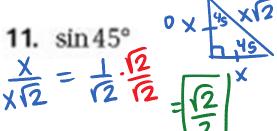
5. 
$$\cos A + \frac{4}{5} = .80$$

7. 
$$\tan C \frac{0}{A} = \frac{4}{3} \approx 1.33$$



Use a special right triangle to write each trigonometric ratio as a fraction.

9. 
$$\cos 60^{\circ}$$
 A X  $\cos 2x$  H  $\frac{x}{2x} = \frac{1}{2}$  X  $\cos 3x$ 



Use your calculator to find each trigonometric ratio. Round to the nearest hundredth.

Find each length. Round to the nearest hundredth.

18. BC

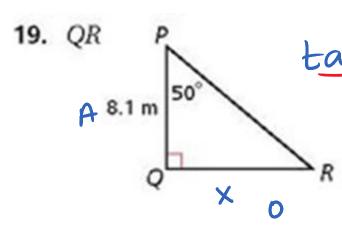
hyp

opp

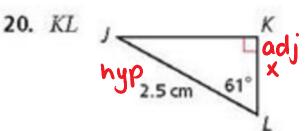
X

A-sin(23) = 
$$\frac{x}{4}$$
. 4

CB  $\approx$  1.56 in



 $\frac{n(50)}{1} \times 8.1$   $8.1 \tan(50) = x$  $QR \approx 9.65 m$ 



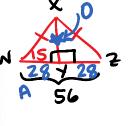
$$C_{H}^{A} 25, COS(U1) = \frac{x}{2.5}.^{2.5}$$

$$x \approx 2.5 \cos(U1)$$

$$KL \approx 1.21 \text{ cm}$$

21. Architecture A pediment has a pitch of 15°, as shown. If the width of the pediment, WZ, is 56 ft, what is XY to the nearest inch?





43. Sports A jump ramp for waterskiing makes an angle of 15° with the surface of the water. The ramp rises 1.58 m above the surface. What is the length of the ramp to the nearest hundredth of a meter?



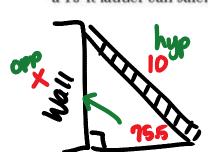
x = 6.10 meters

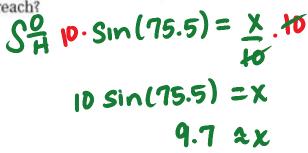


sin(15)

The ramp is app

48. Safety According to the Occupational Safety and Health Administration (OSHA) a ladder that is placed against a wall should make a 75.5 coule with the ground for optimal safety. To the nearest tenth of a foot, what is the maximum height that a 10-ft ladder can safely reach?

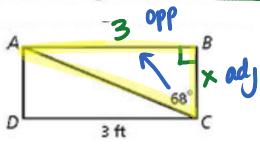




A 10ft Ladder Cansafely reach 9.7ft

Find the indicated length in each rectangle. Round to the nearest tenth.

**49.** BC



TA x. tan 68 = 3.x

x.tan68=3 tan68 tan68 x 2 1.2 so BC21.5