

# HW 122

1.  $\sin B = 3/5$   
 $\cos B = 4/5$   
 $\tan B = 3/4$

2.  $\sin A = 15/39 = 5/13$   
 $\sin B = 36/39 = 12/13$   
 $\cos A = 30/39 = 10/13$   
 $\cos B = 15/39 = 5/13$   
 $\tan A = 15/30 = 1/2$   
 $\tan B = 36/15 = 12/5$

3.  $\sin A = y/z$   
 $\sin B = x/z$   
 $\cos A = x/z$   
 $\cos B = y/z$   
 $\tan A = y/x$   
 $\tan B = x/y$

4.  $\cos 55 = \frac{x}{9}$   
 $9 \cos 55 = x$   
~~5.2 ft = x~~  
 $5.2 \text{ ft} = x$

5.  $\sin 28 = \frac{x}{14}$   
 $14 \sin 28 = x$   
 $6.6 \text{ m} = x$

6.  $\tan 64 = \frac{x}{15}$   
 $15 \tan 64 = x$   
 $30.8 \text{ m} = x$

7.  $\sin 62 = \frac{x}{12.8}$   
 $12.8 \sin 62 = x$   
 $11.3 \text{ ft} = x$

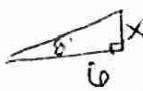
8.  $\tan 48 = \frac{x}{8.14}$   
 $8.14 \tan 48 = x$   
 $9 \text{ mi} = x$


9.  $\cos 28 = \frac{x}{18.3}$   
 $18.3 \cos 28 = x$   
 $16.2 \text{ in} = x$

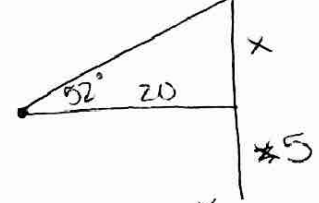
10.  $\cos 21 = \frac{125}{x}$   
 $x \cos 21 = 125$   
 $x = \frac{125}{\cos 21}$   
~~x = 133.9 cm~~  
 $x = 133.9 \text{ cm}$

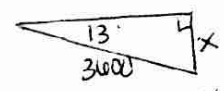
11.  $\sin 57 = \frac{239}{x}$   
 $x = \frac{239}{\sin 57}$   
~~x = 285 in~~  
 $x = 285 \text{ in}$

12.  $\tan 44 = \frac{98}{x}$   
 $x = \frac{98}{\tan 44}$   
 $x = 101.5 \text{ ft}$

13.   
 $\tan 8 = \frac{x}{6}$   
 $x = 0.8 \text{ ft}$

14.   
 $\sin 48 = \frac{100}{x}$   
 $x = 134.6 \text{ m}$

15.   
 $\tan 52 = \frac{x}{20}$   
 $x = 25.615 = 30.6 \text{ ft}$

16.   
 $\sin 13 = \frac{x}{3000}$   
 $x = 809.8 \text{ ft}$