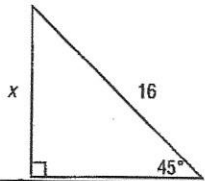
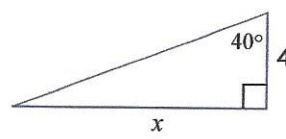
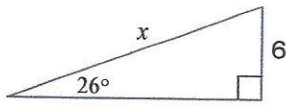
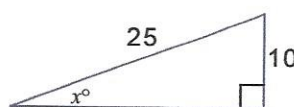
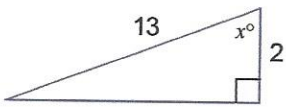
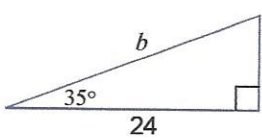
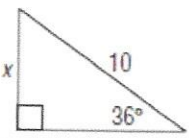
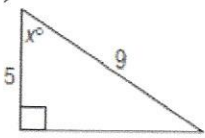
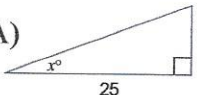
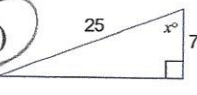
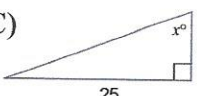
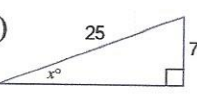
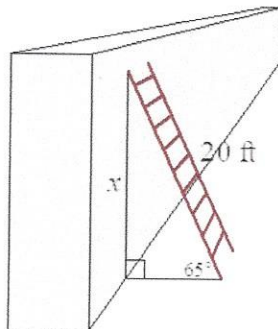


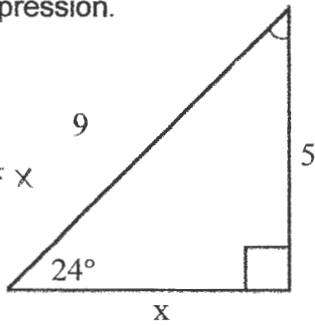
Mod 13 Review

Round all answers to the nearest tenth.

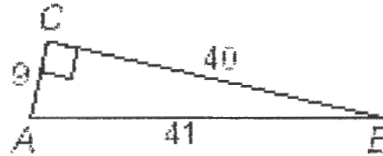
<p>1) Find x.</p>  <p style="margin-left: 100px;"> $\sin 45 = \frac{x}{16}$ $x = 16 \sin 45$ $= 11.3$ </p>	<p>2) Find x.</p>  <p style="margin-left: 100px;"> $\tan 40 = \frac{x}{4}$ $x = 4 \tan 40$ $x = 3.4$ </p>
<p>3) Find x.</p>  <p style="margin-left: 100px;"> $\sin 26 = \frac{6}{x}$ $x = \frac{6}{\sin 26}$ $x = 13.7$ </p>	<p>4) Find x.</p>  <p style="margin-left: 100px;"> $\sin x = \frac{10}{25}$ $x = 23.6$ </p>
<p>5) Find x.</p>  <p style="margin-left: 100px;"> $\cos x = \frac{2}{13}$ $x = 81.2$ </p>	<p>6) Find b.</p>  <p style="margin-left: 100px;"> $\cos 35 = \frac{24}{b}$ $b = \frac{24}{\cos 35}$ $b = 29.3$ </p>
<p>7) Find x.</p>  <p style="margin-left: 100px;"> $\sin 36 = \frac{x}{10}$ $x = 10 \sin 36$ $x = 5.9$ </p>	<p>8) Find x.</p>  <p style="margin-left: 100px;"> $\cos x = \frac{5}{9}$ $x = 56.3$ </p>
<p>9) In a right triangle, $\cos x = \frac{7}{25}$. Which correctly shows the triangle?</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>(A)</p>  </div> <div style="text-align: center;"> <p>(B)</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;"> <p>(C)</p>  </div> <div style="text-align: center;"> <p>(D)</p>  </div> </div>	
<p>10) If a 20-foot ladder makes a 65° angle with the ground, how high up a wall will it reach?</p>  <p style="margin-left: 100px;"> $\sin 65 = \frac{x}{20}$ $x = 20 \sin 65$ $x = 18.1$ </p>	

11) Determine whether each expression can be used to find the value of x . Mark Yes or No for each expression.

$\sin 24^\circ = \frac{5}{9}$
 $\cos 24^\circ = \frac{x}{9} \rightarrow 9 \cos 24^\circ = x$
 $\tan 24^\circ = \frac{5}{x}$
 $x \tan 24^\circ = 5$
 $x = \frac{5}{\tan 24^\circ}$



Expression	Yes	No
$5 \tan 24^\circ$		X
$9 \cos 24^\circ$	✓	
$9 \sin 24^\circ$		X
$\frac{5}{\tan 24^\circ}$	✓	
$5 \cos 24^\circ$		X
$5 \sin 24^\circ$		X



12) What is $\tan \angle B$? 13) What is $\sin \angle B$?

- A $\frac{9}{41}$ A $\frac{9}{41}$
 B $\frac{9}{40}$ B $\frac{9}{40}$
 C $\frac{40}{41}$ C $\frac{40}{41}$