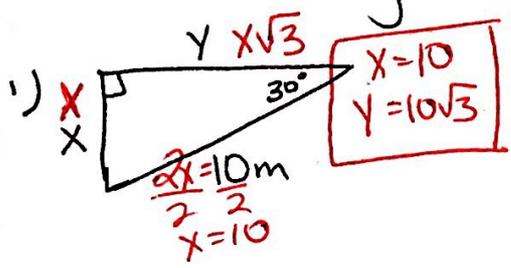


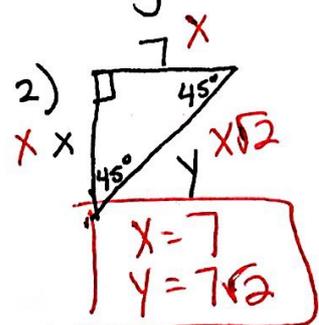
Practice w.s.

Name Key

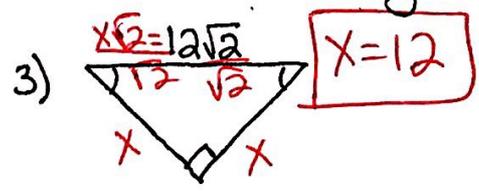
Use special right triangles to solve for x and y.



$x = 10$
 $y = 10\sqrt{3}$

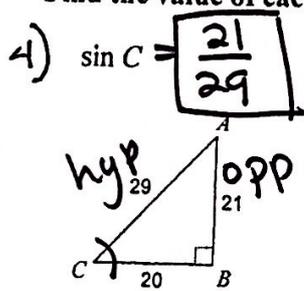


$x = 7$
 $y = 7\sqrt{2}$

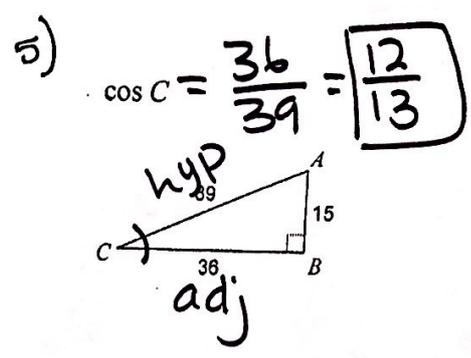


$x = 12$

Find the value of each trigonometric ratio. Express your answer as a fraction in lowest terms.



$\sin C = \frac{21}{29}$



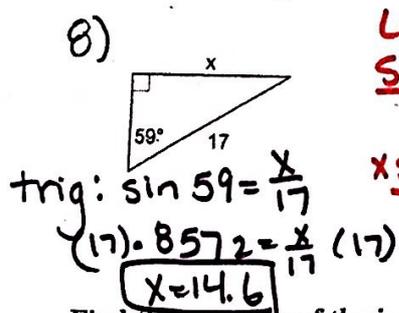
$\cos C = \frac{36}{39} = \frac{12}{13}$

Find the value of each trigonometric ratio to the nearest ten-thousandth.

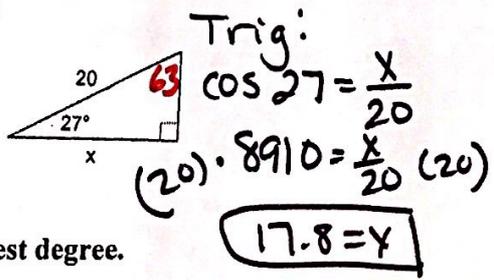
6) $\sin 62^\circ = .882947593$
 $.8829$

7) $\cos 60^\circ = .5$

Find the missing side. Round to the nearest tenth.



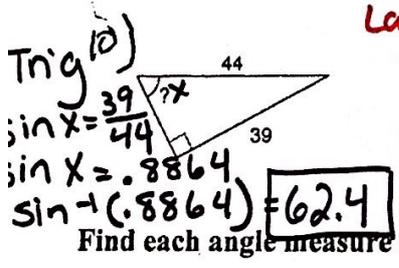
Law of Sines
 $\frac{\sin 90}{17} = \frac{\sin 59}{x}$
 $x \sin 90 = 17 \sin 59$
 $\frac{x \sin 90}{\sin 90} = \frac{17 \sin 59}{\sin 90}$
 $x = 14.6$



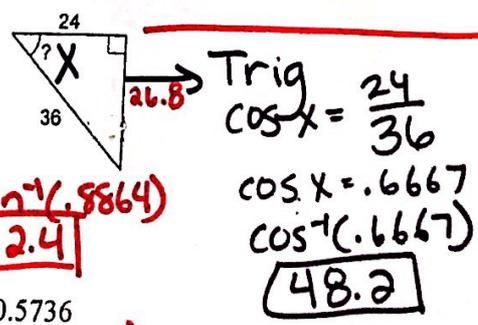
Trig:
 $\cos 27 = \frac{x}{20}$
 $(20) \cdot .8910 = \frac{x}{20} (20)$
 $17.8 = x$

Law of Sines
 $\frac{\sin 90}{20} = \frac{\sin 63}{x}$
 $20 \sin 63 = \frac{x \sin 90}{\sin 90}$
 $17.8 = x$

Find the measure of the indicated angle to the nearest degree.



Law of Sines
 $\frac{\sin 90}{44} = \frac{\sin x}{39}$
 $44 \sin x = 39 \sin 90$
 $\frac{44 \sin x}{44} = \frac{39 \sin 90}{44}$
 $\sin x = .8864 \rightarrow \sin^{-1}(.8864) = 62.4$



Trig
 $\cos x = \frac{24}{36}$
 $\cos x = .6667$
 $\cos^{-1}(.6667) = 48.2$

Law of Sines
 $\frac{\sin 90}{36} = \frac{\sin x}{26.8}$
 $26.8 \sin 90 = \frac{36 \sin x}{36}$
 $.7454 = \sin x$
 $\sin^{-1}(.7454) = 48.2$

12) $\sin X = 0.7547$
 $\sin^{-1}(.7547) = 49^\circ$

13) $\cos Y = 0.5736$
 $\cos^{-1}(.5736) = 55^\circ$