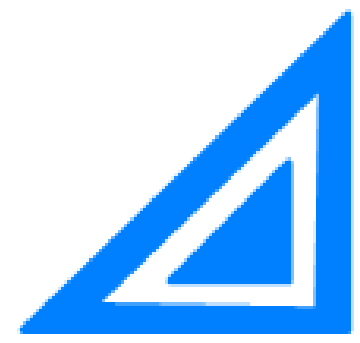
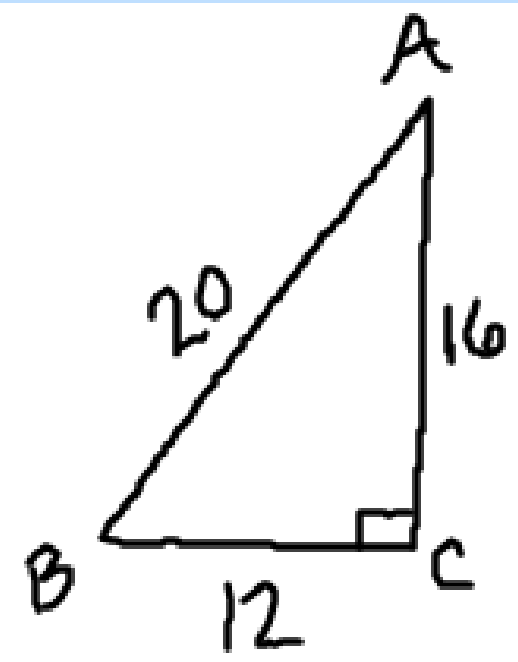


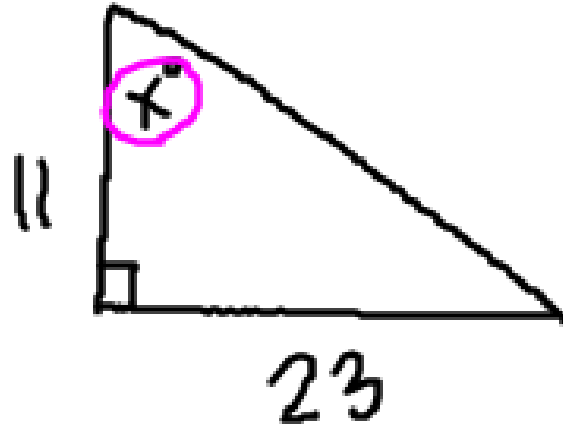
Quiz Review

7-4 through 7-7

	<u>fraction</u>	<u>decimal</u>
1. $\sin A$	$\frac{12}{20} = \frac{3}{5}$	<u>.600</u>
2. $\tan B$	$\frac{16}{12} = \frac{4}{3}$	<u>1.333</u>
3. $\cos A$	$\frac{16}{20} = \frac{4}{5}$	<u>.800</u>



4.)



TOA

* 2nd $\tan x = \frac{23}{11}$

$x \approx 64.4^\circ$



5.)



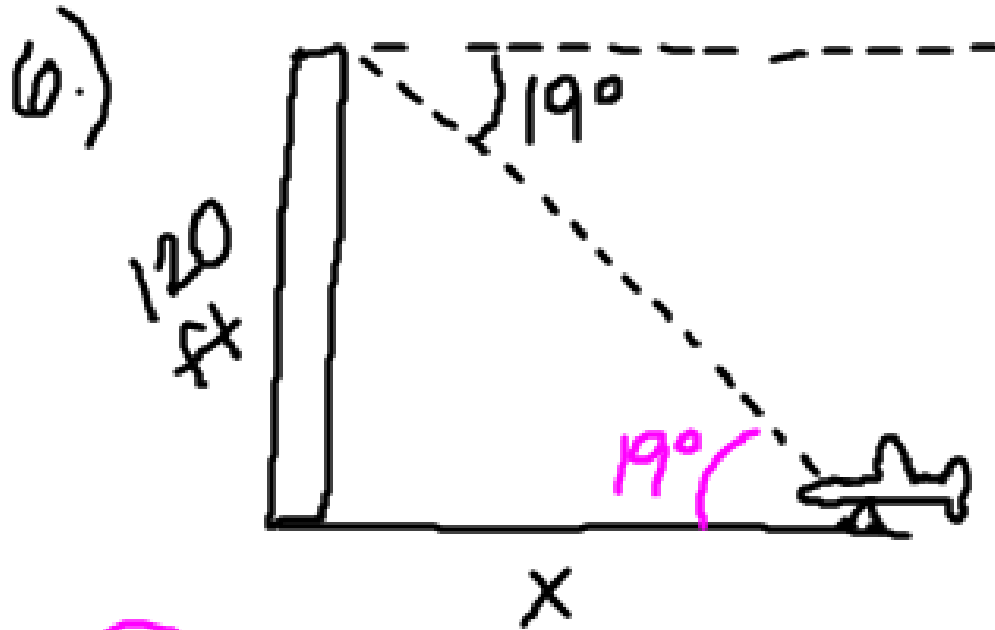
SOH

$$\sin x = \frac{9}{29}$$

*2nd

$$x \approx 18.1^\circ$$





TOA

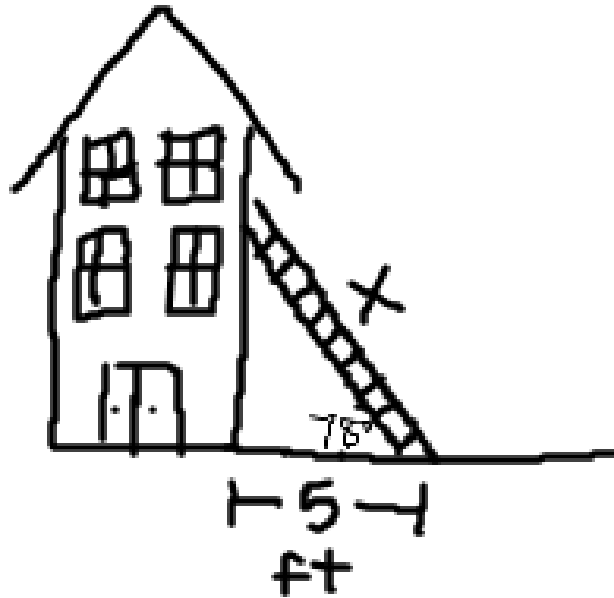
$$\tan 19 = \frac{120}{x}$$

$$x = \frac{120}{\tan 19}$$

$$x \approx 348.5 \text{ ft}$$



7.)



CAH

$$\cos 75 = \frac{5}{x}$$

$$x = \frac{5}{\cos 75}$$

$$x \approx 24.0 \text{ ft}$$



8.) $m\angle A = 52^\circ$
 $m\angle B = 17^\circ$
 $a = 28$
 $b = \underline{\hspace{2cm}}$

$$\frac{\sin A}{a} = \frac{\sin B}{b}$$

$$\frac{\sin 52}{28} = \frac{\sin 17}{b}$$

$$\frac{28 \sin 17}{\sin 52} = \frac{b \sin 52}{\cancel{\sin 52}}$$

$$10.4 = b$$



9.) $m\angle A = 156^\circ$

$b = 18$

$c = 21$

$a = \underline{\hspace{2cm}}$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$a^2 = 18^2 + 21^2 - 2(18)(21) \cos 156$$

$$\sqrt{a^2} = \sqrt{765 - 756 \cos 156}$$

$$a \approx 38.2$$



$$10.) a = 13$$

$$b = 18$$

$$c = 19$$

$$\angle C =$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$19^2 = 13^2 + 18^2 - 2(13)(18) \cos C$$

$$361 = 49 + 324 - 468 \cos C$$

$$\frac{-132}{-468} = \frac{-468 \cos C}{-468}$$

* 2nd

$$73.6^\circ = C$$

