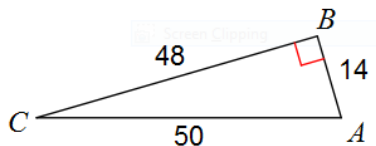


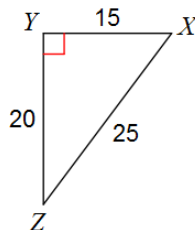
The Six Trigonometric Ratios

Write the Trig Ratio indicated. Simplify your answers

1. $\cos C$

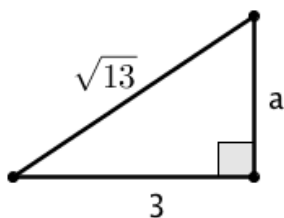


2. $\tan X$

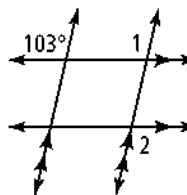


Review Problems:

3. Solve for side a using the Pythagorean Theorem:

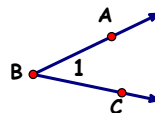


4. Find the $m\angle 1$ and $m\angle 2$



5. Factor Completely:
 $x^2 - 16$

6. Name the following angle 4 ways:



Extended Understanding:

7. Use the figure below to express each of the following as ratios. **NO DECIMALS!**

	a) $\sin \alpha$	b) $\csc \alpha$	c) $\sin \beta$	d) $\csc \beta$
	e) $\cos \alpha$	f) $\sec \alpha$	g) $\cos \beta$	h) $\sec \beta$
	i) $\tan \alpha$	j) $\cot \alpha$	k) $\tan \beta$	l) $\cot \beta$

8. Based on the given trigonometric ratio, sketch a triangle and find the rest of the missing trig ratios.

Given: $\cot \theta = \frac{5}{6}$

a) $\sin \theta$

b) $\csc \theta$

Draw Triangle Here:

c) $\cos \theta$

d) $\sec \theta$

e) $\tan \theta$

f) $\cot \theta = \frac{5}{6}$