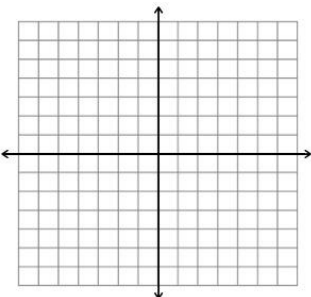
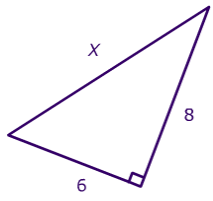
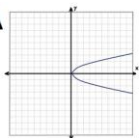
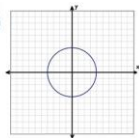
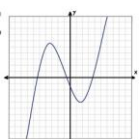
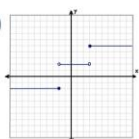


# Student PreTest

## Arithmetic / Pre-Algebra

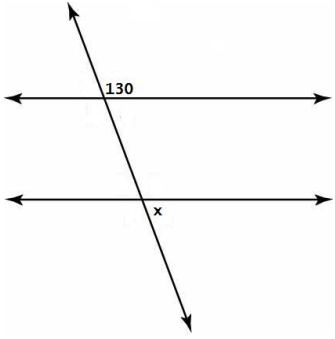
16	$-6 - 4$	$-12 \div 4$	What is the reciprocal of $\frac{2}{3}$ ?
40 is what percent of 800?	$\frac{2}{3} \div \frac{7}{9}$	Graph (-3,4) 	Order from least to greatest: $.3$ , $\frac{1}{4}$ , $.200$ , $\overline{.3}$
$\frac{3}{4} + \frac{1}{2}$	Write 6% as a decimal.	$\sqrt{49}$	A class has 20 students. If there are 15 girls in the class, what is the ratio of girls to boys?

## Algebra

What is the value of x? 	Simplify $3x^2 - 2$ , if $x=8$	Solve for x: $3x - 5 = 7$	Factor $x^2 + 3x - 4$
Solve the system of equations: $\begin{cases} 3x - y = 7 \\ 2x + 3y = 1 \end{cases}$	Which of the following are functions (none, one, or more than one is possible)? Why? <b>A</b>  <b>B</b>  <b>C</b>  <b>D</b> 	Solve for x: $\frac{x+3}{4} - \frac{x}{-2} = 0$	Simplify: $-4x + 5x^2 - 6x^4 - 20x^2 - 2x^4 + x$

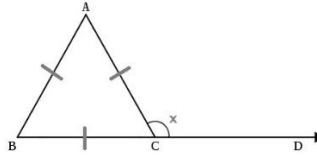
# Geometry

What is the value of  $x$ ?



Mark is standing near a tree. Mark is 5 feet tall and his shadow measures 7 feet. The tree's shadow measures 21 feet. What is the height of the tree?

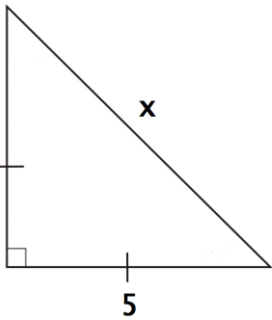
What is the value of  $x$ ?



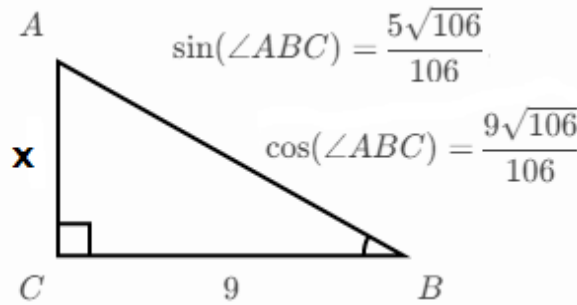
If two angles are both complimentary and congruent, then the measure of one of the angles is what?

# Trigonometry / Pre-Calculus

What is the value of  $x$ ?  
(show work using special right triangles)



What is the value of  $x$ ?



Name the vector.

