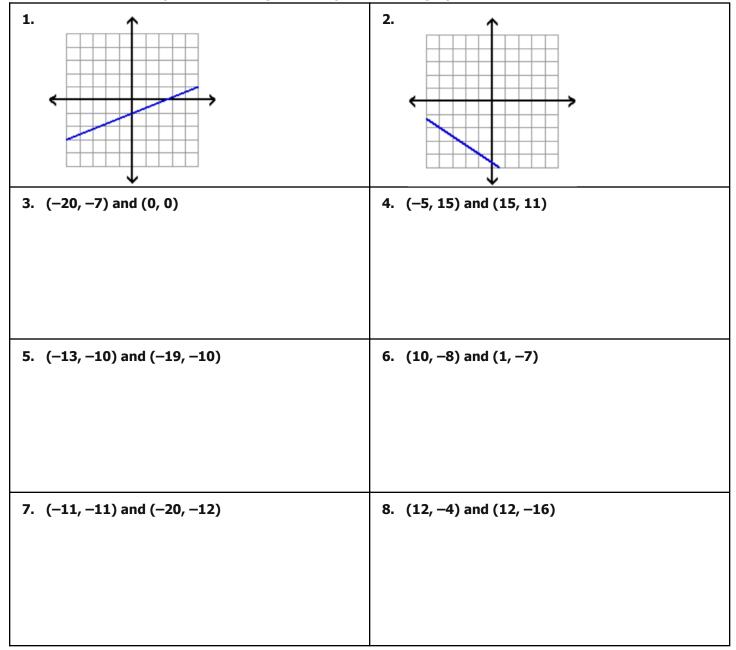
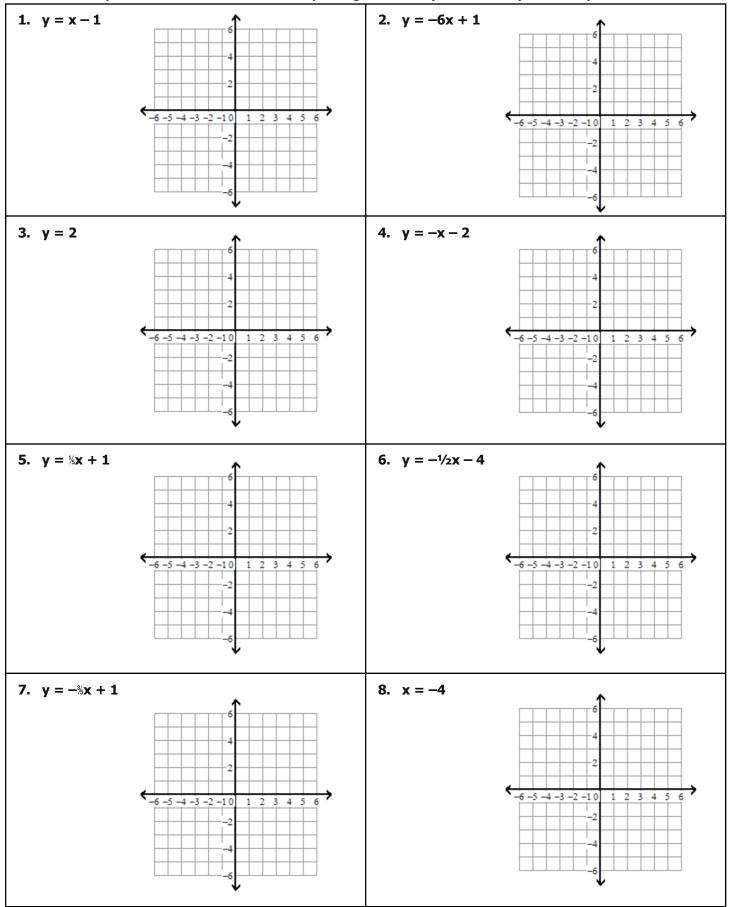
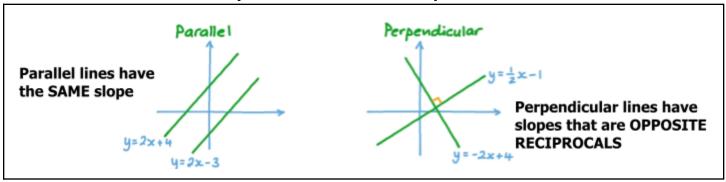


### Directions: Find the slope of each line given two points or the graph.



Geometry Readiness: Linear Equations (y = mx + b)Directions: Graph each line on the coordinate plane given the equation in slope-intercept form.





Directions: Determine if each set of lines is parallel, perpendicular or neither.

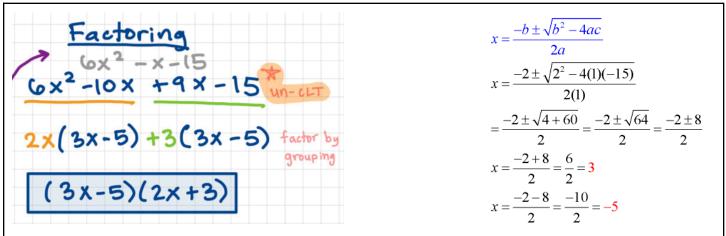
Directions: Determine if each set of lines is parallel, perpendicular of hercher.			
1. $y = \frac{1}{2}x - 3$ y = 5 - 2x	2. $y = \frac{2}{3}x + 7$ $y = \frac{2}{3}x - 6$		
parallel perpendicular neither	parallel perpendicular neither		
<sup>3.</sup> $y = \frac{3}{5}x - 1$ $y = \frac{5}{3}x - 2$	4. $y = x + 5$ y = -x - 3		
parallel perpendicular neither	parallel perpendicular neither		
5. $y = 3$ x = -2	6. $3x - 4y = 12$ 6x - 8y = 5		
parallel perpendicular neither	parallel perpendicular neither		
7. $y = 5$ y = -3	8. $3x + 5y = 10$ 5x - 3y = 9		
parallel perpendicular neither	parallel perpendicular neither		

$15 + 6 \times = 45 + 8 \times$	3(5+2×)=8(5+×)
$15+6x = 45+8x  -6x - 6x  15 = 45+2x Check your answer:  -45-45 15+6(-15) \stackrel{?}{=} 45+8(-15) -30 = 2x  2 2 15+(-90) \stackrel{?}{=} 45+(-120) -15 = x -75 = -75 \checkmark$	$\begin{array}{c cccc} 15+6x=40+8x & \underline{Check}:\\ -8x & -8x \\ 15-2x=40 \\ -15 & -15 \\ -\frac{22x}{-2} & 3(5+2(\frac{-25}{2}))^{\frac{2}{3}} 8(5+(\frac{-25}{2})) \\ 3(5-25)^{\frac{2}{3}} 8(\frac{10}{2}-\frac{25}{2}) \\ 3(-20)^{\frac{2}{3}} 8(-\frac{15}{2}) \\ x=\frac{-25}{2} & -60=-60 \end{array}$

# Directions: Solve each equation

1. $1 - 5n = 5 - 7n$	2. $-7 - 8m = 1 - 7m$
1. 1 - 51 - 5 - 71	27 - 6 m - 1 - 7 m
3. $6(r + 2) = -4(r + 7)$	4. $2(2a + 6) = -2 + 5(2 + a)$
<b>5.</b> $n \pm 8$ $n = 9$	6. 0 5
<b>5.</b> $\frac{v+8}{4} = \frac{v-9}{6}$	$\begin{array}{c} 6.  \frac{9}{5x+9} = \frac{5}{7x+5} \end{array}$
4 0	3x + 9 = 7x + 3
<b>7.</b> $\frac{5x-3}{7} = \frac{x+5}{3}$	8. $\frac{x+6}{2} = \frac{x-5}{3}$
$-\frac{7}{7} = -\frac{3}{3}$	$\frac{-2}{2} = \frac{-3}{3}$

## **Geometry Readiness: Solving Quadratic Equations**



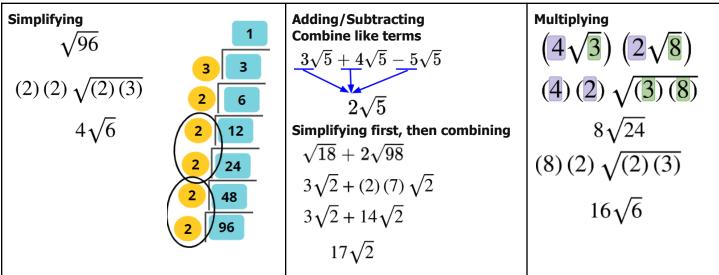
Directions: Solve each quadratic equation algebraic (factoring or quadratic formula)

1. $a^2 + 3a - 28 = 0$	2. $n^2 + 2n - 35 = 0$
3. $r^2 + 2r - 15 = 0$	4. $p^2 + 2p - 48 = 0$
5. $x^2 - 5x = 14$	6. $m^2 - 2m = 8$
7. $n^2 - 4n = 5$	8. $x^2 - 3x = 4$

Directions: Find the solution of each system of equations using substitution.

1. 
$$\begin{cases} y = 8x - 4 \\ -x + y = 3 \end{cases}$$
2. 
$$\begin{cases} -4x - 3y = -18 \\ y = 3x + 6 \end{cases}$$
3. 
$$\begin{cases} y = 2x + 3 \\ 4x - 5y = 3 \end{cases}$$
4. 
$$\begin{cases} x - 3y = -4 \\ y = -3x + 18 \end{cases}$$
5. 
$$\begin{cases} x - 2y = 12 \\ -5x - 6y = 4 \end{cases}$$
6. 
$$\begin{cases} 5x + y = -15 \\ 7x - 6y = 16 \end{cases}$$

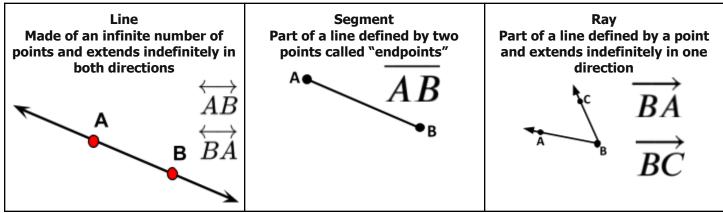
# Geometry Readiness: Simplifying Radicals + Operations with Radicals



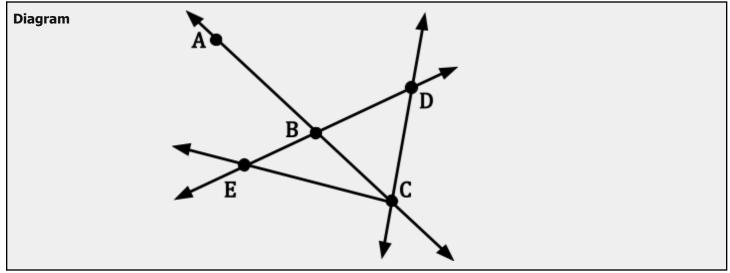
#### **Directions: Simplify each expression**

Directions. Simplify each expression		
<b>1.</b> $\sqrt{108}$	<b>2.</b> $\sqrt{32}$	<b>3.</b> $\sqrt{384}$
<b>4.</b> $5\sqrt{63}$	<b>5.</b> $6\sqrt{288}$	<b>6.</b> $-3\sqrt{24}$
<b>7.</b> $-6\sqrt{2} + 4\sqrt{3} - 3\sqrt{2}$	<b>8.</b> $\sqrt{8} + \sqrt{18} + \sqrt{20}$	<b>9.</b> $\sqrt{48} + \sqrt{3} + \sqrt{75}$
<b>10.</b> $(4\sqrt{6})(3\sqrt{2})$	<b>11.</b> $(3\sqrt{5})(4\sqrt{3})$	<b>12.</b> $(7\sqrt{6})(5\sqrt{10})$

### Geometry Readiness: Lines, Segments, and Rays

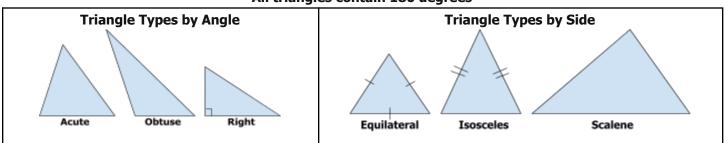


Directions: Use the diagram to identify the lines, segments, and rays.

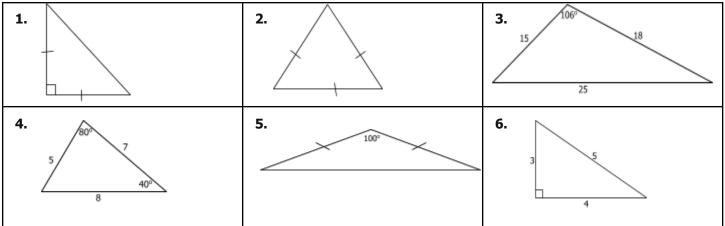


Lines	Segments	Rays

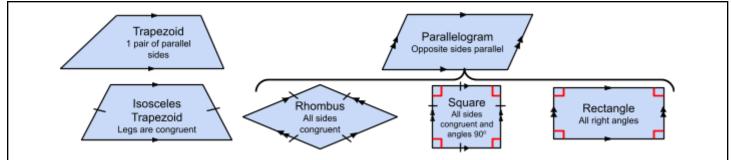
# Geometry Readiness: Types of Triangles and Quadrilaterals \*\* All triangles contain 180 degrees \*\*

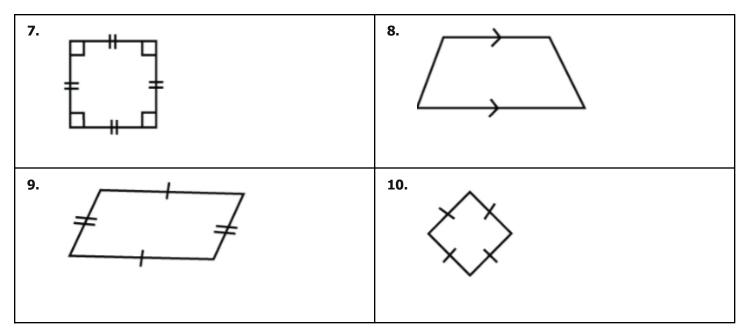


## Directions: Classify each triangle by its angles and sides.

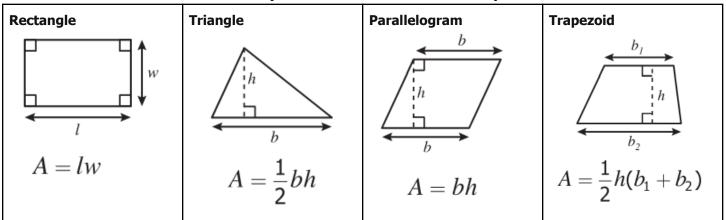


### Directions: Determine if each is a square, rectangle, rhombus, parallelogram, trapezoid or more than name.

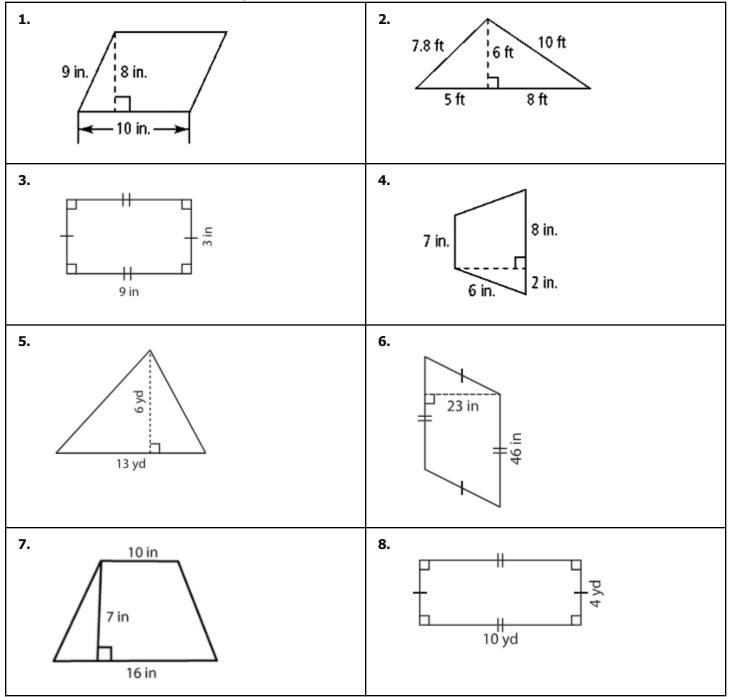


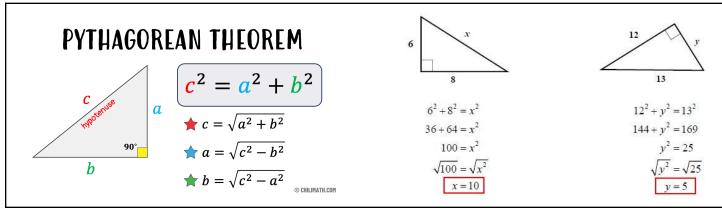


**Geometry Readiness: Area of Basic Shapes** 

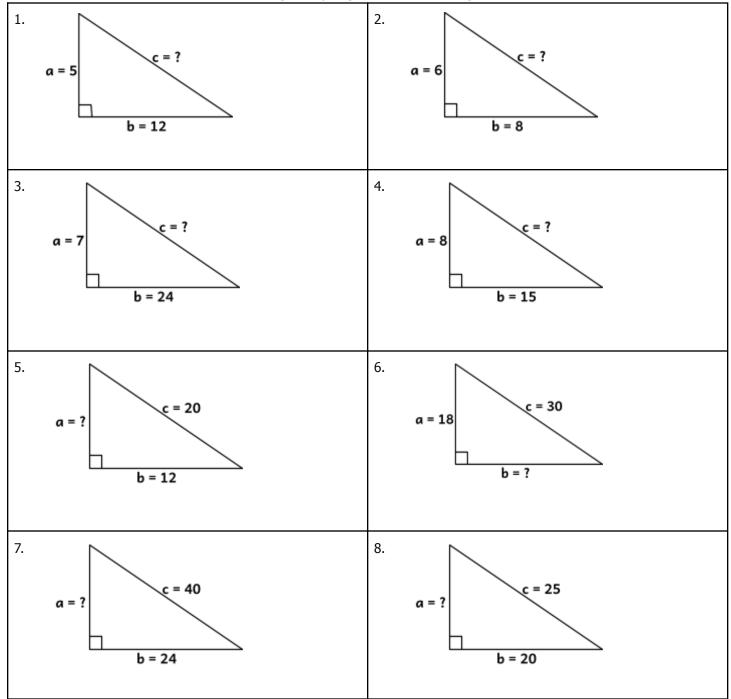


Directions: Find the area for each figure

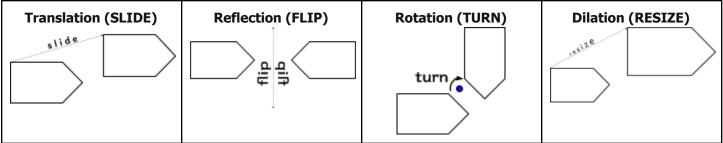




Directions: Solve for the unknown value using the Pythagorean theorem. \*Figures not drawn to scale\*



# **Geometry Readiness: Basic Transformations**



**Directions**: Identify the type of transformation that occurred.

