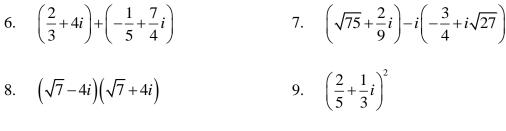
## NAME\_\_\_\_\_DATE\_\_\_\_ ALGEBRA II WORKSHEET: CONVERTING BETWEEN FORMS

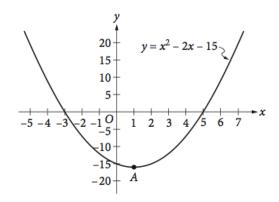
Complete the table by converting each equation to the other forms. If it is impossible to write an equation in a certain form, write "None" in the appropriate space.

	Intercept	Standard	Vertex
1.	y = 2(x-4)(x+3)		
2.			$y = -\left(x+2\right)^2 + 16$
3.		$y = x^2 - 2x + 5$	
4.		$y = -x^2 - 2x + 35$	
5.			$y=3(x-1)^2-48$

## 6-9. Simplify each complex number expression completely.



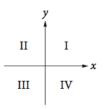
10.



Which of the following is an equivalent form of the equation of the graph shown in the *xy*-plane above, from which the coordinates of vertex *A* can be identified as constants in the equation?

- A) y = (x+3)(x-5)
- B) y = (x 3)(x + 5)
- C) y = x(x-2) 15
- D)  $y = (x-1)^2 16$





If the system of inequalities  $y \ge 2x + 1$  and

 $y > \frac{1}{2}x - 1$  is graphed in the *xy*-plane above, which quadrant contains no solutions to the system?

- A) Quadrant II
- B) Quadrant III
- C) Quadrant IV
- D) There are solutions in all four quadrants.