

Lesson 4.9 Worksheet

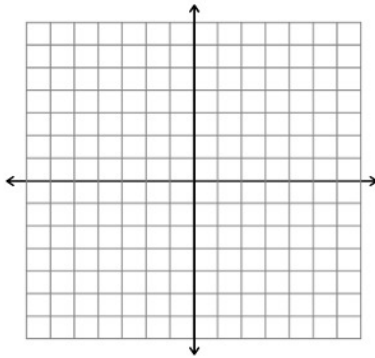
Name: _____

Graph the inequality or system of inequalities.

1.) $y > x^2 - 7$

AOS: _____

vertex: _____

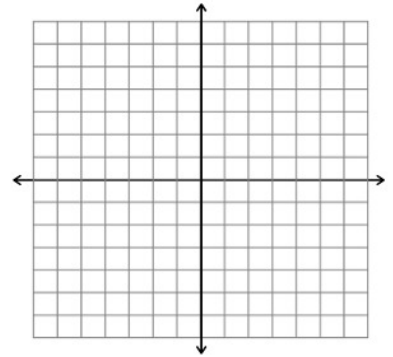


| | | | | | |
|---|--|--|--|--|--|
| x | | | | | |
| y | | | | | |

2.) $y \leq 2x^2 + 8x + 1$

AOS: _____

vertex: _____

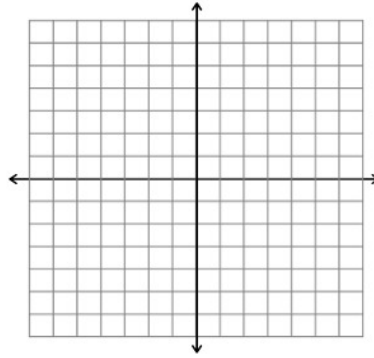


| | | | | | |
|---|--|--|--|--|--|
| x | | | | | |
| y | | | | | |

3.) $y \geq -4(x - 2)^2 + 4$

AOS: _____

vertex: _____

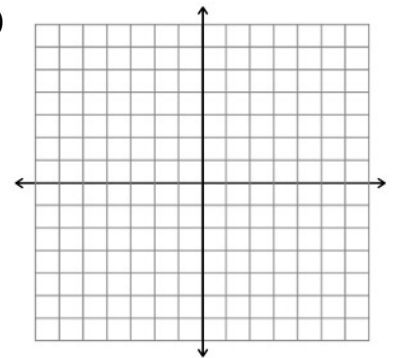


| | | | | | |
|---|--|--|--|--|--|
| x | | | | | |
| y | | | | | |

4.) $y < 3(x + 2)(x + 6)$

AOS: _____

vertex: _____

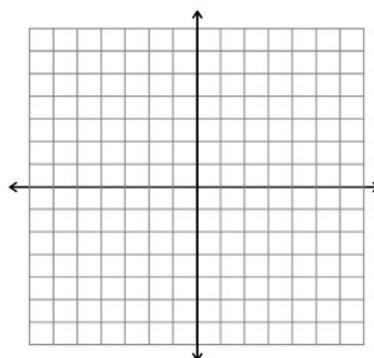


| | | | | | |
|---|--|--|--|--|--|
| x | | | | | |
| y | | | | | |

y-axis by 2

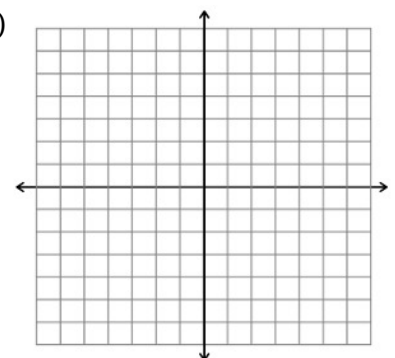
5.) $y > (x + 1)(x - 3)$

$y \leq -x^2 + 3$

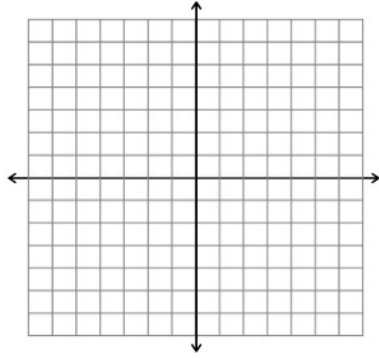


6.) $y > 2(x - 5)(x - 1)$

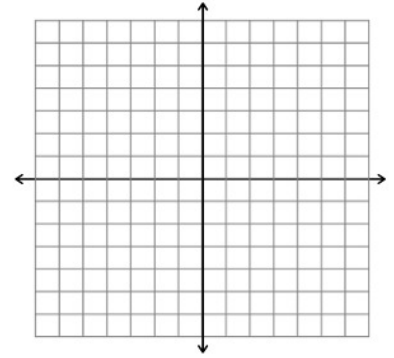
$y \leq -(x - 3)^2$



$$7.) y \leq -x^2 + 4x - 4$$
$$y < 2x^2 + x - 8$$



$$8.) y < -2x^2 + 5$$
$$y \geq (x + 1)^2 + 2$$



Solve the quadratic equation using the method of your choice.

$$9.) x^2 + 5x = 36$$

$$10.) 16t^2 + 9 = 0$$

$$11.) 9z^2 + 12z = -4$$

$$12.) x^2 + 8x = -1$$

$$13.) 12x^2 + 10x = 5$$

$$14.) 3x^2 + 5x + 4 = 0$$