Date Period

Assignment
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1) What is standard form?

2) What is vertex form?

- 3) How do you find the vertex when the equation is in standard form?
- 4) How do you find the vertex when the equation is in vertex form?

5) What is a parabola?

6) What is the axis of symmetry?

- 7) How would you find the y intercept?
- 8) How would you find points to graph your equations?

9) Which equations are quadratics?

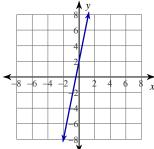
A)
$$y = x + 1$$

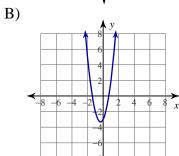
B)
$$y = x(3x - 1)$$

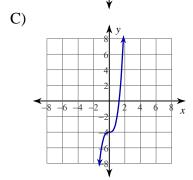
C)
$$y = x^2 - 92x$$

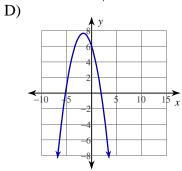
D)
$$y = 3x^4 - 5x^2 + 3x - 3x^4$$

- 10) Which equations are quadratics?
 - A) The dot next to the choice indicates that it is the answer.



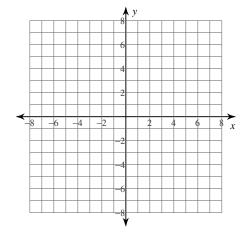




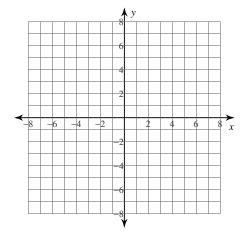


Identify the vertex, axis of symmetry, direction of opening, and min/max value of each. Then sketch the graph.

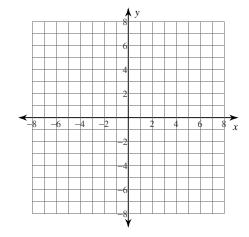
11)
$$y = -2x^2 + 4x - 5$$



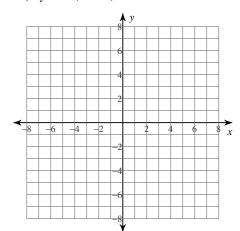
12)
$$y = -x^2 - 2x + 1$$



13)
$$y = -(x-5)^2 + 4$$



14)
$$y = -(x-6)^2 - 3$$



What is the transformations?

15)
$$y = -\frac{1}{2}(x-2)^2 + 2$$

16)
$$y = 2(x-1)^2 - 4$$

17)
$$y = -(x+4)^2 + 2$$

18)
$$y = -2(x-3)^2 - 2$$

19)
$$y = -\frac{1}{2}(x+4)^2 + 4$$

20)
$$y = -\frac{1}{2}(x-4)^2 - 3$$

What is the domain and range

21)
$$y = -x^2 - 4x - 2$$

$$22) \ \ y = 3x^2 + 6x + 4$$

23)
$$y = -2x^2 - 12x - 21$$

24)
$$y = -(x-2)^2 + 4$$

25)
$$y = 2(x-4)^2 + 4$$

26)
$$y = 2(x-3)^2 - 2$$