Math-3A	Name		ID: 1
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SM3-A HW #2-7 (convert to verte	x form)	Date	Period
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1) Determine the slope intercept form equation that passes through: (-1, 5) and (2, -5)

2) State the Domain and Range of the function in interval form:

$$y = -3\sqrt{x+6} - 3$$

a) Convert to intercept formb) List the x-intercepts.

3)
$$x^2 + 11x + 28 = 0$$

4) $x^2 - 7x + 10 = 0$

a) Convert the following equations to vertex form.

b) Solve the resulting equations by taking square roots.

5)
$$x^2 - 8x - 23 = 0$$

6) $x^2 + 10x + 4 = 0$

7)
$$x^2 + 4x - 20 = 0$$

8) $x^2 + 12x - 54 = 0$

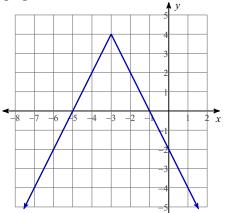
9)
$$x^2 + 4x - 97 = 0$$
 10) $x^2 - 4x - 51 = 0$

11)
$$x^2 + 6x - 81 = 0$$

12)
$$x^2 + 8x + 13 = 0$$

- 13) A piece of iron was heated to a temperature of 1500 F. It was then put into an oil bath that was at 100 F. After 1 minute the temperature of the iron was measure to be 983 F.
 - a) Find the base "B" equation that models the situation.
 - b) Convert your equation to a base 'e' exponential decay function.
 - c) What will be the temperature after 3 minutes?

14) What is the equation represented by the graph?



15) What is the equation represented by the graph? The graph passes through (-1, 4) and (0, -2).

