

Pre-test 6 Your name? (Last, first): _____

1.3 _____

3.2 _____

3.3 _____

3.4 _____

1 / **1.3, 3.3, 3.4**) For the following function, identify the point of symmetry and intercepts. For full credit, verify these points, make a quick graph of them, and create a situation that the graph might possibly model (use complete sentences).

$$y = -|4x - 4| + 4$$

2 / **1.3, 3.3, 3.2**) For the following function, identify the vertex and intercepts. Also, write the sum of the products. For full credit, verify these points (don't verify vertex), make a quick graph of them, and create a situation that the graph might possibly model (use complete sentences).

$$y = (2x + 0)(-3x + 9)$$

Pre-test 7 Your name? (Last, first): _____

1 / **3.1, 3.2**) Fully simplify the following expressions with no negative exponents.

a.)
$$\frac{x^2 y^5 x^8 y^{-9}}{x^4 y^3 x^{-5} y^2}$$

b.) $(3x - 4 + 5y - 12)(2x + 3 + 6y^2)$

c.)
$$\frac{120x^{30}y^{-14}}{150x^{22}y^a}$$

2 / **3.5, 1.3**)

a.) If $12y = 6x + 24$, what does x equal?
What does x equal when $y = -4$?

b.) If $-2a - 3b + 4 = 7$, what does a equal?
What does a equal when $b = 5$?