

Name: _____ Hour: _____ Date: _____

Honors – Graphing (Factored) Polynomials Practice

For each of the following (factored) polynomials:

a) Find the zeros

b) State any multiples with their multiplicities. (If there are no multiples say so!)

c) Graph the polynomial

1) $y = (x - 5)^3$

2) $y = x(x - 8)^2$

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

$$4) y = (2x + 5)(x - 2)^2(x + 6)$$

$$5) y = -x^2(x - 2)$$

$$6) y = -(x + 2)^4(x + 3)$$