

Name: _____ Hour: _____ Date: _____

Graphing (Factored) Polynomials Practice I

For each of the following (factored) polynomials:

a) Find the zeros

b) Determine if the polynomial is positive/negative and even/odd and use arrows to represent the end behavior.

c) Graph the polynomial

1) $y = (x - 5)(x + 2)(x + 4)$

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

3) $y = -(x - 2)(x - 5)(x + 3)$

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

$$5) y = -x(x - 2)(x + 5)(x + 1)$$

$$6) y = (x + 3)(x - 1)(x + 5)(x - 4)$$