Graphing Polynomials Practice III

For the following factored polynomials:

    a) Find the zeros

    b) State any multiples and give their multiplicities. (If there are no multiples write that there are none!)

    c) Describe the end behavior

    d) Sketch a graph of the polynomial

1) $y = x^2(x + 1)(x - 2)^3$	2) $y = -x(x + 4)(x - 4)$
3) $y = x^3(x + 5)$	4) $y = -(x + 3)(x + 1)(x - 6)^3$

Follow the same directions as #1-4

5) $y = (x - 3)^2(x + 1)^3$	6) $y = -(x + 8)(x - 5)^4(x + 2)$
7) $y = -2x(x + 5)^2$	8) $y = (x + 2)(x + 1)^2(x - 4)(x - 2)^2(6x - 2)$