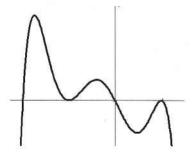
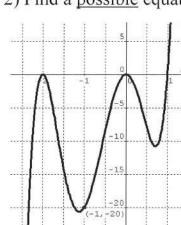
1) For the graph below: determine the degree, and if the coefficient of the highest term is positive or negative:



Positive or Negative _____



2) Find a possible equation for the graph of the polynomial below.



$$Y = K(X+2)^{2}(X)^{2}(X-1)$$

$$-20 = K(1)^{2}(-1)^{2}(-2)$$

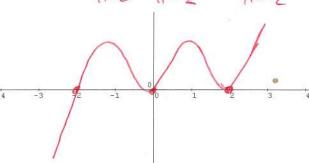
$$K = \frac{-20}{-2} = 10$$

$$K = \frac{-20}{-2} = 10$$

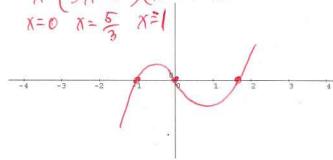
$$\sqrt{y = 10(x+2)^{2}(x)^{2}(x-1)}$$

3) Sketch the following polynomials:

a)
$$f(x) = x^2 (x-2)^2 (x+2)$$



b) $f(x) = 3x^3 - 2x^2 - 5x$ x = 0 $x = \frac{5}{3}$ $x \ge 1$



c) $f(x) = -2x^4 + 18x^2$

