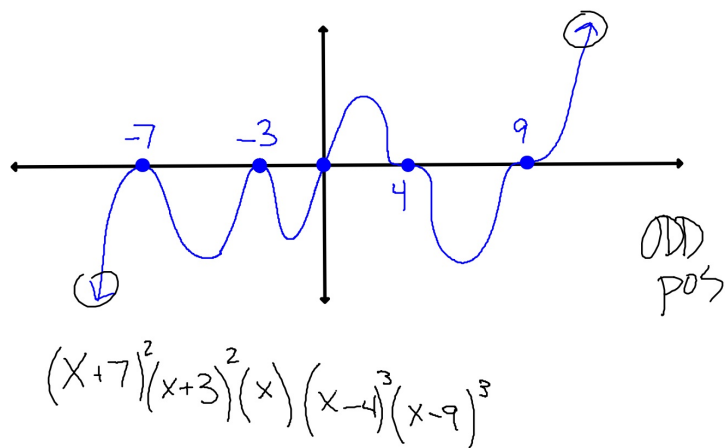
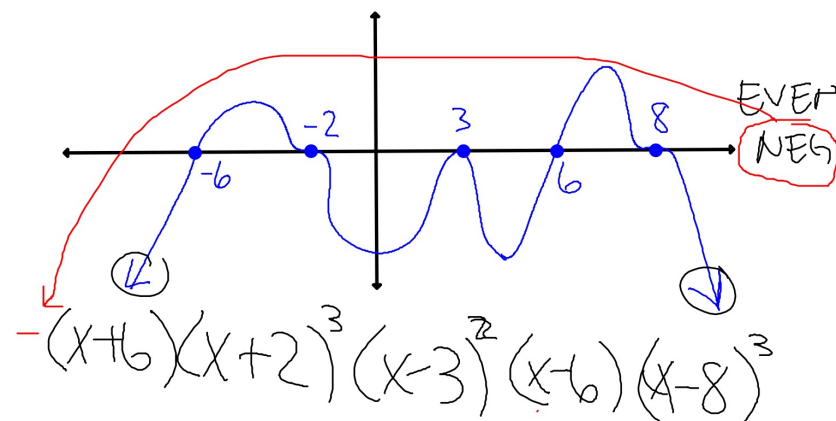


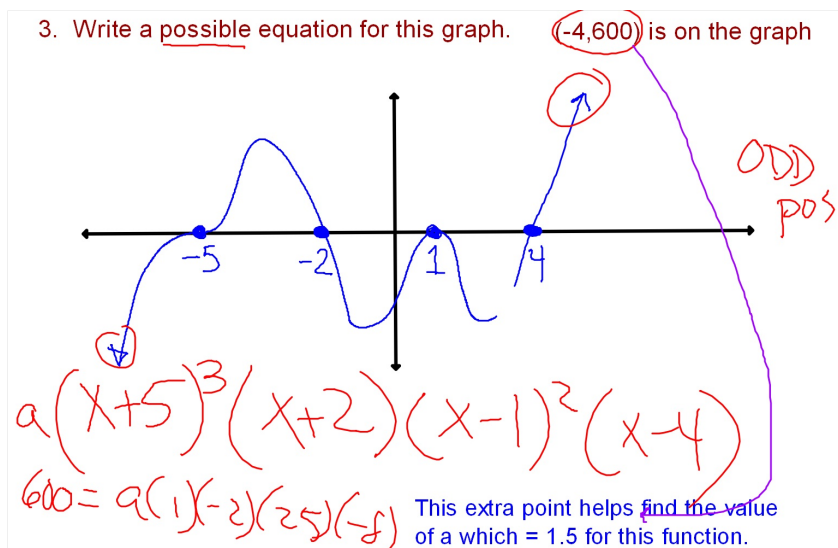
1. Write a possible equation for this graph.



2. Write a possible equation for this graph.



3. Write a possible equation for this graph.



Find the minimum value of this function and when it occurs:

$$y = 3x^2 - 12x + 5$$

Min Value = -7 (y-coord of the vertex)
this value occurs when $x=2$ (x-coord of the vertex)

$$X = -\frac{b}{2a} = \frac{12}{6} = 2$$

$$3(2)^2 - 12(2) + 5 = -7$$

This is called the Absolute Minimum.

Does this function have a maximum value?

No max value since the graph increases for ever on both ends.

Find minimum value of this function and when it occurs

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

