

Check for Understanding:

Which of the following polynomials are odd degreed polynomials:

$$y = 5x^4 - 3x^3 + 7$$

$$y = 2x^5 - 7x^2 - 3x + 4$$

$$y = (x-7)^2(x+1)^2(x+2)$$

$$y = 4x(x-2)^2$$

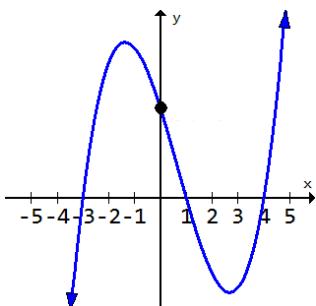
$$y = -3x^2(x+5)(x-7)$$

$$y = -6x^5 - 7x^6$$

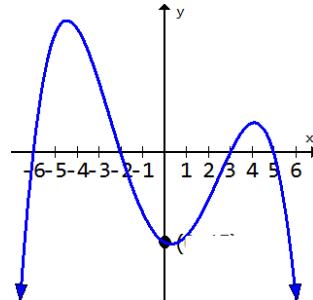
**Practice C-Level:**

Write a possible equation for each polynomial:

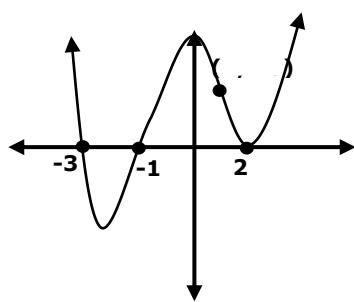
1.



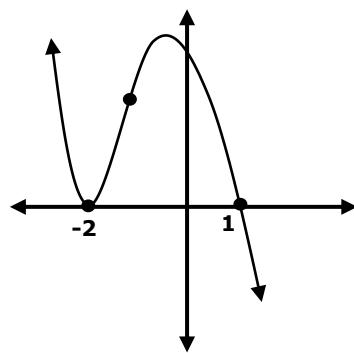
2.



3.

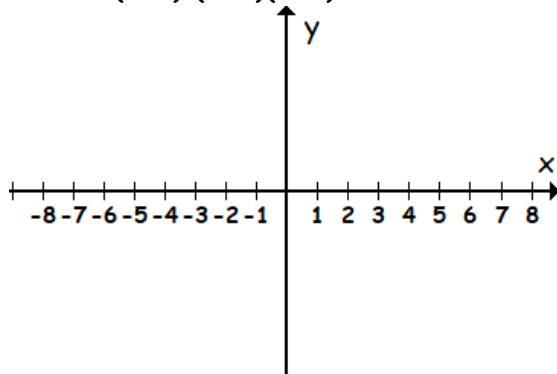


4.

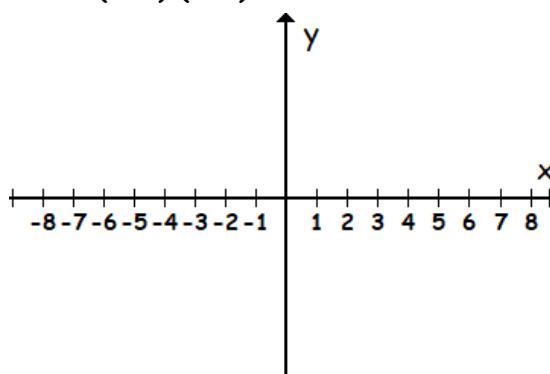


Graph the polynomials:

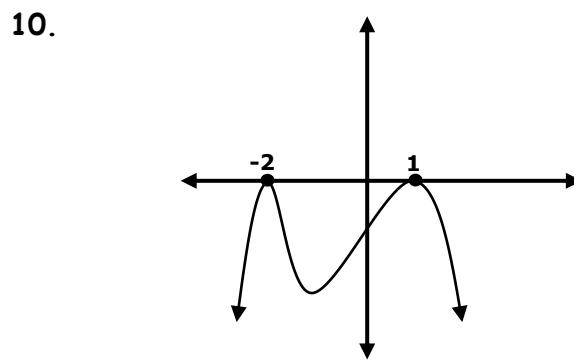
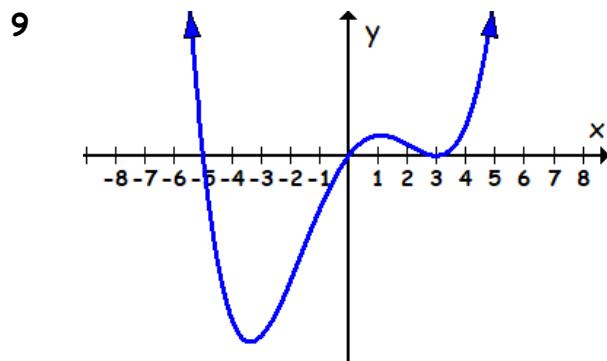
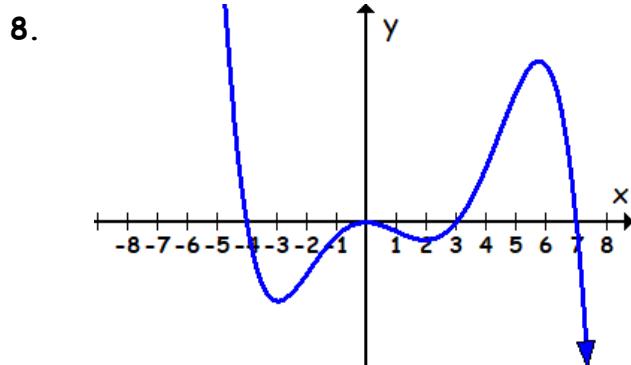
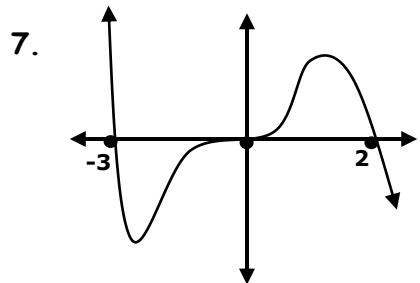
5.  $y = 4(x-3)^2(x+4)(x+6)$



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

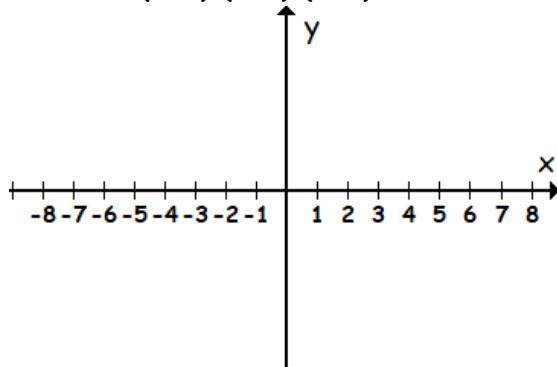


B-Level -- Write the equation

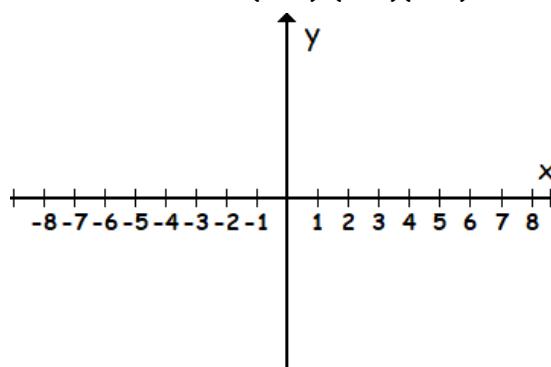


Graph the given equation:

11.  $Y = 4x(x+3)^2(x-4)^2(x+6)$



12.  $Y = -12x^3(x+4)^2(x-3)(x-7)$



Looking ahead: Find the EXACT equation of this polynomial.

