

Answers must be **legible, simplified** and **boxed** or **circled**. Answers may be given using exact **integers, fractions** or decimals accurate to **two** places. Write polynomials in **standard form**.

1) Simplify:  $6x^5 - 4x^3(2x^2 - 3x^3) =$

2)  $(4x^5 + 3x^3 - 5x^2 + 3x + 2) + (9x^5 - 11x^4 - 7x^2 - 3x + 5) =$

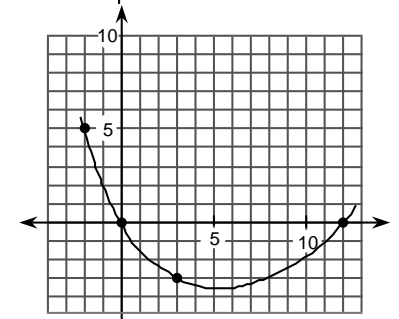
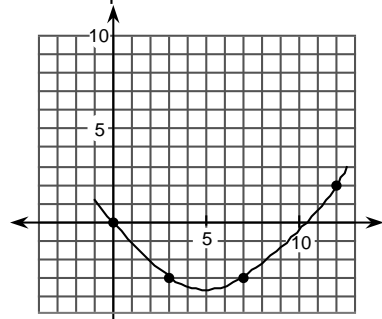
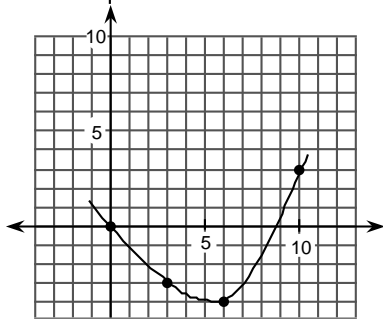
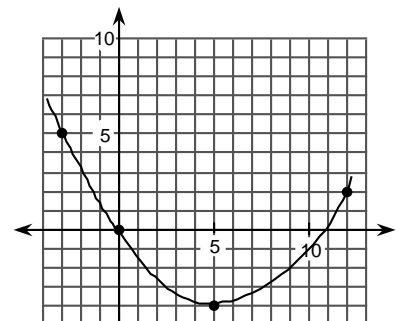
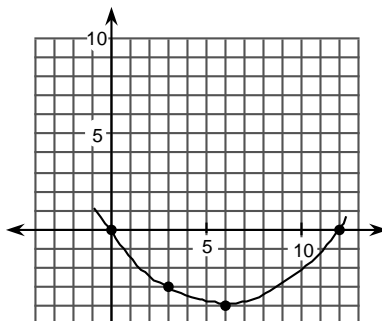
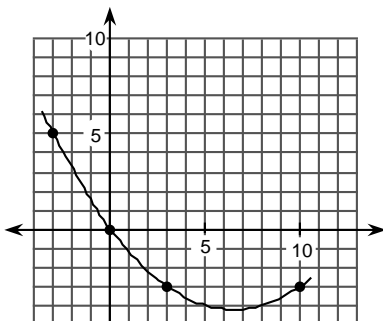
3)  $(-7x^3 - 5x^2 + 13x + 2) - (-11x^3 - 7x^2 - 3x + 5) =$

4) Given  $P(x) = 11x^3 - 7x^2 - 3x + 5$ , evaluate

(a)  $P(2) =$

(b)  $P(-2) =$

5) Circle the graph which best matches  $y = \frac{x^2 - 12x}{9}$ . (Hint: Check all marked points)



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Be sure your answers are written in **Standard Form**: i. e.  $a_n x^n + \dots + a_2 x^2 + a_1 x + a_0$ .

6)  $(2x + 3)(4x - 7) =$

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

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

9) Solve for x:  $36 - 24 \frac{5x + 3}{5} = 16 - 13x$

10) Give the equation of the line through (-12, 7) & (8, 2) in slope intercept form.