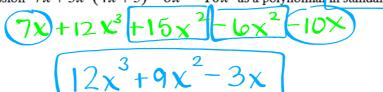
Algebra 1

Show all work; be sure to pay attention to detail...these problems are more rigourous! ©

1) Write the expression  $7x + 3x^2(4x + 5) - 6x^2 - 10x$  as a polynomial in standard form.



2) If the difference  $(2x^2 + 5x) - (x^2 + 8x)$  is multiplied by  $3x^2$ , what is the result, written in standard form?

$$\frac{2x^{2}+5x-1x^{2}-8x}{3x^{2}(x^{2}-3x^{1})}$$

$$3x^{4}-9x^{3}$$

 $(-2x^2+5x-12)$  is multiplied by  $\frac{1}{2}x^2$ , what is 3) If the sum  $(4x^2)$ the result written in standard form?

$$\frac{1}{2} \times (2 \times^2 + 3 \times^2 - 6)$$

$$\int \frac{1}{2} \chi^4 + \frac{3}{2} \chi^3 - 3 \chi^2$$

J061 If the difference  $(3x^2-2x+5)-(x^2+3x-2)$  is multiplied by  $\frac{1}{2}x^2$ , what is 4) the result written in standard form? Jbb 3

- 5) Which of the following is equivalent to:  $24x^2 6x + 12$ 
  - $2(12x^2-3x)+6 \rightarrow 24x^2-6x+6$ 
    - II.)  $2(12x^2 3x + 6) \rightarrow 24x^2 6x + 12$
  - III.)  $24x^2 6(x-2) \rightarrow 24x^2 6x + 12$ IV.)  $3(8x^2 2x) + 12 \rightarrow 24x^2 6x + 12$
- I only

- b) II and IV only c) II and III only d) II, III, and IV only