10-1 Practice Problem Answers

Directions 1-3: Put each polynomial into standard form and find the degree.

1) $5x^2 - 4x^3 + 5$	2) $10x^6 - 13x^7$	3) $6 - 4g^2 + 7g + 5g^3$
SF: $-4x^3 + 5x^2 + 5$ Deg: 3	SF: $-13x^7 + 10x^6$ DEG: 7	SF: $5g^3 - 4g^2 + 7g + 6$ Deg: 3

Directions 4-10: Find each sum or difference.

4) $(5a^2 - 3) + (8a^2 - 1)$ $\boxed{13a^2 - 4}$	5) $(7k^2 + 2k - 6) + (3k^2 - 11k - 8)$ $7k^2 + 3k^2 + 2k - 11k - 6 - 8$ $\boxed{10k^2 - 9k - 14}$
6) $(4m^2 - m + 2) + (-3m^2 + 10m + 7)$ $4m^2 - 3m^2 - m + 10m + 2 + 7$ $\boxed{m^2 + 9m + 9}$	7) $(6c^2 + 3c + 9) - (3c - 5)$ $6c^2 + 3c + 9 - 3c + 5$ $\boxed{6c^2 + 14}$
8) $(-n^2 + 2n) - (2n^3 - n^2 + n + 12)$ $-n^2 + 2n - 2n^3 + n^2 - n - 12$ $\boxed{-2n^3 + n - 12}$	9) $(9b^3 - 13b^2 + b) - (-13b^2 - 5b + 14)$ $9b^3 - 13b^2 + b + 13b^2 + 5b - 14$ $\boxed{9b^3 + 6b - 14}$

10) $(9p^2 - 6p + 3 - 11p) + (7p^3 - 3p^2 + 4) - (5p^2 - p^3 + 10)$

$-5p^2 + p^3 - 10$

$7p^3 + p^3 + 9p^2 - 3p^2 - 5p^2 - 6p - 11p + 3 + 4 - 10$
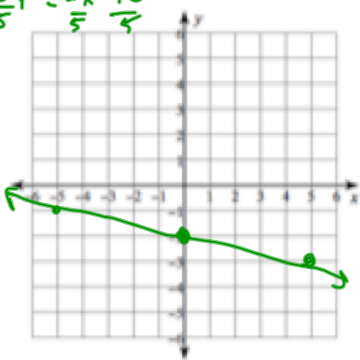
$8p^3 + p^2 - 17p - 3$

11) Describe and correct the error below:

$(6x^2 - 5x) - (2x^2 + 3x - 2)$

$6x^2 - 5x - 2x^2 + 3x + 2$

$4x^2 - 2x - 2$

$4x^2 - 8x + 2$

DID NOT DISTRIBUTE TO EVERY TERM

SKILLZ REVIEW		
Graph.	List all pairs of numbers that multiply to the given number.	Which number pair contains the largest perfect square?
1) x + 5y = -10 $-x -x$ $\frac{5y}{5} = \frac{-x}{5} \frac{-10}{5}$ $\rightarrow y = -\frac{1}{5}x - 2$	2) 48 $1 \cdot 48$ $2 \cdot 24$ $3 \cdot 16$ $4 \cdot 12$ $6 \cdot 8$	3) Use 48 $3 \cdot 16$ $\uparrow$ $4 \cdot 4$ Perfect SQUARE