Algebra 2/Trig: STARTER PRACTICE 6.1-6.2

SHOW YOUR WORK in a CLEAR and ORGANIZED manner and write LEGIBLY too. If I can't understand the flow of your work, then that's not clear and if I can't understand your handwriting, then that's not legible. NO WORK, NO CREDIT.
BOX the final answers.
1) Rewrite in <u>standard form</u>. Then identify the leading coefficient, degree, and the number of terms. Classify the polynomial. (15 points)

a) 3x² + 6x³ - 5x⁵
b) 4x⁵ - 3x + 7x⁴ + 2x³
c) -6x³ + 2x - 3x⁴

Date:

Standard Form	Leading Coeff.	Degree	# of Terms	Classification
a)				
b)				
c)				

2) Add or subtract. Write your answer in <i>standard form</i> .	(3 points each)
a) $3(7x^3 + 4x - 12x^2 + 6) - 2(4x^3 + 3x^2 - 6x + 3)$	

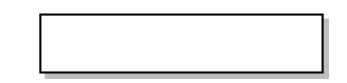
b)
$$(3a^2 - ab - 7) + 2(5a^2 + ab + 8) - 3(-2a^2 + 3ab - 6)$$

- 3) Find each product. Write your answer in *standard form*. (3 points each)
 - a) $(x-y)(x^2 + xy + y^2)$ b) $(4x+3)(5x^2 - 3x + 2)$

4) Expand each expression. (3 points each)

a) $(5x - 2y)^3$

b) $(4a - 3b)^5$



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