Adding and Subtracting Polynomials

Date Period

Simplify each expression. State all answers in Standard Form

1)
$$(6x^3 - 6x^2) + (4x^3 + 6x^2)$$

 $(6x^3 - 6x^2) + (4x^3 + 6x^2)$
 $(6x^3 - 6x^2) + (4x^3 + 6x^2)$

3)
$$(6m^2 - 2m^4) - (7m^2 - 2m^4)$$

 $6m^2 - 2m^4 - 7m^2 + 2m^4$
 $-m^2$

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

 $x^4 - x^2 + 3x^4 - 6x^2$
 $4x^4 - 7x^2$

7)
$$(1+5b^2-4b^3)+(4b^2-3b-1)$$

 $1+5b^2-4b^3+4b^2-3b-1$
 $-4b^3+9b^2-3b$

2)
$$(8+7r^4) - (3r^4-r^3)$$

 $8+7r^4-3r^4+r^3$

4)
$$(5p^4 - 5p^2) + (2p^4 - 4p^2)$$

 $5p^4 - 5p^2 + 2p^4 - 4p^2$
 $7p^4 - 9p^2$

6)
$$(4x^2 + 5x) - (4x - x^2)$$

 $4x^2 + 5x - 4x + x^2$
 $5x^2 + x$

8)
$$(3x^3 - 3x^4 - x^2) + (x - 3x^4 + x^2)$$

 $3x^3 - 3x^4 - x^2 + x - 3x^4 + x^2$
 $-6x^4 + 3x^3 + x$

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9)
$$(3m^4 + 3m + 4) + (5m^4 + 2 - m^3)$$

 $3m^4 + 3m + 4 + 5m^4 + 2 - m^3$
 $8m^4 - m^3 + 3m + 6$
11) $(4b^4 - 2b^3 - 2) + (4 + 3b^4 + 3b^3)$
 $4b^4 - 2b^3 - 2 + 4 + 3b^4 + 3b^3$
 $1b^4 + 2b^3 - 2 + 4 + 3b^4 + 3b^3$
 $1b^4 + 2b^3 - 2 + 4 + 3b^4 + 3b^3$
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