

Homework quiz after 7.2

Out of 8 Possible Points

Find each product. Leave your answer in standard form. Then, classify the polynomial by degree and number of terms.

1) $(8m - 7)(3m - 7)$

$$24m^2 - 56m - 21m + 49$$

$$24m^2 - 77m + 49$$

quadratic trinomial

2) $(x + 3)(7x^2 + 6x - 1)$

$$7x^3 + 6x^2 - x + 21x^2 + 18x - 3$$

$$7x^3 + 27x^2 + 17x - 3$$

cubic polynomial

Simplify each expression. Leave your answer in standard form. Then, classify the polynomial by degree and number of terms.

3) $(7x^2 + 8x^4 - 3x^3) + (8x^3 + x^2 - 6x^4)$

$$7x^2 + 8x^4 - 3x^3 + 8x^3 + x^2 - 6x^4$$

$$2x^4 + 5x^3 + 8x^2$$

quartic trinomial

4) $(6n + 7n^4 - 2) - (4 + 2n - 2n^4)$

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

$$9n^4 + 4n - 6$$

quartic trinomial