



Polynomial Long Division

Version 2

Name: _____

Date: _____

Score: _____

Direction: Divide the polynomials using "Long Method". Show all your work in the space provided.

1) $(2x^5 + 6x^2 - 4x + 4) \div (2x + 4)$

2) $(3x^4 - 1) \div (x - 2)$

3) $(2x^6 - 1) \div (x + 1)$



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1) $(2x^5 + 6x^2 - 4x + 4) \div (2x + 4)$

$$x^4 - 2x^3 + 4x^2 - 5x + 8 - \frac{28}{2x + 4}$$

2) $(3x^4 - 1) \div (x - 2)$

$$3x^3 + 6x^2 + 12x + 24 + \frac{47}{x - 2}$$

3) $(2x^6 - 1) \div (x + 1)$

$$2x^5 - 2x^4 + 2x^3 - 2x^2 + 2x - 2 + \frac{1}{x + 1}$$