

Name : _____

Dividing Polynomials

Sheet 1

Divide by long division method.

1) $(2b^5 + 5b^4 - 18b^3 + 2b^2 - 1) \div (b^3 + 4b^2 - b + 1)$

2) $(p^4 + 6p^2 + 2) \div (p^2 + 5)$

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

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

5) $(k^3 + k^2) \div ($

6) $(4n^6 - 3n^5 - n^4 + 2n^3 - 8n^2 + 3n - 1) \div (n^2 - n + n + 2)$

7) $(2m^2 + 5m - 18) \div (m + 4)$

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Dividing Polynomials

Divide by long division method.

1) $(2b^5 + 5b^4 - 18b^3 + 2b^2 - 1) \div (b^3 + 4b^2 - b + 1)$

$$2b^2 - 3b - 4 + \frac{13b^2 - b + 3}{b^3 + 4b^2 - b + 1}$$

2) $(p^4 + 6p^2 + 2) \div (p^2 + 5)$

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

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

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

4) $(6v^6 + 2v^5 - 6v^4 + 2v - 12) \div (6v^2 + 2v - 12)$

$$v^4 + v^3 - v^2 + v - 1$$

5) $(k^3 + k^2) \div (k + 2)$

$$k + 2 + \frac{4}{k - 2}$$

6) $(4n^6 - 3n^5 - n^4 + 2n^3 - 8n^2 + 3n - 1) \div (n^3 - n^2 + n + 2)$

$$4n^3 + n^2 - 4n - 11 + \frac{-17n^2 + 22n + 15}{n^3 - n^2 + n + 2}$$

7) $(2m^2 + 5m - 18) \div (m + 4)$

$$2m - 3 - \frac{6}{m + 4}$$

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