

Name : _____

Dividing Polynomials

Sheet 2

Divide by synthetic method.

1) $(3a^2 + 5a + 7) \div (3a + 2)$

2) $(9c^2 - 12) \div (c - 3)$

3) $(8m^4 - 6m^3 + 4m^2 + 7m - 71) \div (m + 6)$

5) $(10x^3 + 37x^2 + 4x - 16v + 9) \div (x - 4)$

7) $(4h^2 + 5h + 3) \div (h - 2)$

8) $(8w^3 + 10w^2 + 6) \div (w + 1)$

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Dividing Polynomials

Divide by synthetic method.

1) $(3a^2 + 5a + 7) \div (3a + 2)$

2) $(9c^2 - 12) \div (c - 3)$

$$a + 1 + \frac{5}{3a + 2}$$

$$9c + 27 + \frac{69}{c - 3}$$

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

$$71) \div (t + 6)$$

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$$8m^3 + 2m^2 + 6m - 1$$

$$\frac{11}{t + 6}$$

5) $(10x^3 + 37x^2 + 4x - 1) \div (x + 3)$

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$$-16v + 9) \div (v - 4)$$

$$x^2 + 3x + 2 + \frac{1}{10}$$

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$$4 - \frac{7}{v - 4}$$

7) $(4h^2 + 5h + 3) \div (h - 2)$

8) $(8w^3 + 10w^2 + 6) \div (w + 1)$

$$4h + 13 + \frac{29}{h - 2}$$

$$8w^2 + 2w - 2 + \frac{8}{w + 1}$$