

Name : _____

Dividing Polynomials

Sheet 1

Divide by synthetic method.

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

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

3) $(-8h^3 + 3h^2 + 5)$

$8) \div (2z - 5)$

5) $(9p^2 - 24p - 12)$

$+ 1)$

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7) $(y^4 + 4y^3 + 58y - 5) \div (y + 6)$

8) $(4u^2 + u - 7) \div (4u - 7)$

Dividing Polynomials

Divide by synthetic method.

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

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

$$x^3 - 3x^2 - 5x - 12 - \frac{35}{x - 3}$$

$$2b - 6 + \frac{33}{b + 5}$$

3) $(-8h^3 + 3h^2 + 5)$

$(2z - 5)$

$$-8h^2 + 19h - 3$$

$$\frac{2}{-5}$$

5) $(9p^2 - 24p - 12)$

$+ 1)$

$$9p + 12 + \frac{36}{p - 4}$$

$$\frac{2}{+ 1}$$

7) $(y^4 + 4y^3 + 58y - 5) \div (y + 6)$

8) $(4u^2 + u - 7) \div (4u - 7)$

$$y^3 - 2y^2 + 12y - 14 + \frac{79}{y + 6}$$

$$u + 2 + \frac{7}{4u - 7}$$

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