

Name : _____

Dividing Polynomials

Sheet 3

Divide by synthetic method.

1) $(3n^4 + 8n^3 - 7n^2 + 6) \div (n - 2)$

2) $(6d^2 - 13d + 38) \div (6d + 5)$

3) $(50p^3 + 10p^2 - 3) \div (5p - 1)$

$-5g + 2) \div (g - 3)$

5) $(a^2 - 74) \div (a - 8)$

$x + 18) \div (3x - 7)$

PREVIEW

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7) $(2r^4 + r^3 + 7r^2 + 14r + 3) \div (r + 2)$

8) $(s^2 + 5s + 3) \div (s + 6)$

Dividing Polynomials

Divide by synthetic method.

1) $(3n^4 + 8n^3 - 7n^2 + 6) \div (n - 2)$

2) $(6d^2 - 13d + 38) \div (6d + 5)$

$$3n^3 + 14n^2 + 21n + 42 + \frac{90}{n-2}$$

$$d - 3 + \frac{53}{6d+5}$$

3) $(50p^3 + 10p^2 - 3)$

$$- 5g + 2) \div (g - 3)$$

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$$50p^2 - 40p + 5$$

$$+ 1 + \frac{5}{g-3}$$

5) $(a^2 - 74) \div (a - 8)$

$$x + 18) \div (3x - 7)$$

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$$a + 8 - \frac{10}{a-8}$$

$$\frac{39}{x-7}$$

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7) $(2r^4 + r^3 + 7r^2 + 14r + 3) \div (r + 2)$

8) $(s^2 + 5s + 3) \div (s + 6)$

$$2r^3 - 3r^2 + 13r - 12 + \frac{27}{r+2}$$

$$s - 1 + \frac{9}{s+6}$$