

Name : _____

Score : _____

Teacher : _____

Date : _____

Dividing Polynomials

Divide each polynomial. Put remainders in fractional form.

1) $(-r^3 - 11r^2 + 10r - 9) \div (r - 3)$

6) $(2p^3 - 5p^2 + 16p - 7) \div (p + 6)$

2) $(-4y^3 - 18y^2 + 20y - 15) \div (y + 5)$

7) $(3y^2 + 13) \div (y + 3)$

3) $(-2x^2 - 11) \div (x + 3)$

8) $(-p^2 - 17p - 8) \div (p - 5)$

4) $(2c^2 - 9) \div (c + 9)$

9) $(-2c^2 - 18c + 18) \div (c + 9)$

5) $(4n^2 - 11n + 9) \div (n - 3)$

10) $(-3c^3 - 19c^2 - 3c + 12) \div (c + 7)$



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Dividing Polynomials

Divide each polynomial. Put remainders in fractional form.

1) $(-r^3 - 11r^2 + 10r - 9) \div (r - 3)$

$$-r^2 - 14r - 32 - \frac{105}{r - 3}$$

6) $(2p^3 - 5p^2 + 16p - 7) \div (p + 6)$

$$2p^2 - 17p + 118 - \frac{715}{p + 6}$$

2) $(-4y^3 - 18y^2 + 20y - 15) \div (y + 5)$

$$-4y^2 + 2y + 10 - \frac{65}{y + 5}$$

7) $(3y^2 + 13) \div (y + 3)$

$$3y - 9 + \frac{40}{y + 3}$$

3) $(-2x^2 - 11) \div (x + 3)$

$$-2x + 6 - \frac{29}{x + 3}$$

8) $(-p^2 - 17p - 8) \div (p - 5)$

$$-p - 22 - \frac{118}{p - 5}$$

4) $(2c^2 - 9) \div (c + 9)$

$$2c - 18 + \frac{153}{c + 9}$$

9) $(-2c^2 - 18c + 18) \div (c + 9)$

$$-2c + \frac{18}{c + 9}$$

5) $(4n^2 - 11n + 9) \div (n - 3)$

$$4n + 1 + \frac{12}{n - 3}$$

10) $(-3c^3 - 19c^2 - 3c + 12) \div (c + 7)$

$$-3c^2 + 2c - 17 + \frac{131}{c + 7}$$

