

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Dividing Polynomials

Divide each polynomial. Put remainders in fractional form.

1)  $(-2x^3 + 8x^2 - 16x - 7) \div (x + 3)$

6)  $(-4b^3 - 12b^2 + 19b - 14) \div (b + 6)$

2)  $(-d^2 + 17d + 8) \div (d + 7)$

7)  $(3r^2 + 16) \div (r + 3)$

3)  $(-x^3 - 19x^2 + 11x - 7) \div (x - 4)$

8)  $(-2d^3 + 11d^2 + 15d - 8) \div (d - 1)$

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

9)  $(-q^2 - 9q + 3) \div (q + 1)$

5)  $(2g^2 - 12) \div (g + 8)$

10)  $(3q^2 - 7) \div (q - 4)$



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## Dividing Polynomials

Divide each polynomial. Put remainders in fractional form.

1)  $(-2x^3 + 8x^2 - 16x - 7) \div (x + 3)$

$$-2x^2 + 14x - 58 + \frac{167}{x+3}$$

6)  $(-4b^3 - 12b^2 + 19b - 14) \div (b + 6)$

$$-4b^2 + 12b - 53 + \frac{304}{b+6}$$

2)  $(-d^2 + 17d + 8) \div (d + 7)$

$$-d + 24 - \frac{160}{d+7}$$

7)  $(3r^2 + 16) \div (r + 3)$

$$3r - 9 + \frac{43}{r+3}$$

3)  $(-x^3 - 19x^2 + 11x - 7) \div (x - 4)$

$$-x^2 - 23x - 81 - \frac{331}{x-4}$$

8)  $(-2d^3 + 11d^2 + 15d - 8) \div (d - 1)$

$$-2d^2 + 9d + 24 + \frac{16}{d-1}$$

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

$$2d - 10 + \frac{32}{d+5}$$

9)  $(-q^2 - 9q + 3) \div (q + 1)$

$$-q - 8 + \frac{11}{q+1}$$

5)  $(2g^2 - 12) \div (g + 8)$

$$2g - 16 + \frac{116}{g+8}$$

10)  $(3q^2 - 7) \div (q - 4)$

$$3q + 12 + \frac{41}{q-4}$$

