Name : _____   Score : _____

Teacher : _____   Date : _____

Dividing Polynomials

Divide each polynomial. Put remainders in fractional form.

1) $(h^3 + 17h^2 - 16h + 11) \div (h - 6)$

6) $(2y^2 + 17) \div (y - 3)$

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

7) $(-4z^2 + 9) \div (z - 2)$

3) $(-3y^2 + 8y + 11) \div (y + 5)$

8) $(2q^3 - 9q^2 + 11q - 15) \div (q - 7)$

4) $(-c^3 - 7c^2 + 6c - 6) \div (c + 2)$

9) $(-4b^3 - 12b^2 + 8b - 5) \div (b + 5)$

5) $(4g^2 + 6) \div (g - 6)$

10) $(p^3 + 6p^2 + 15p - 15) \div (p + 3)$

Dividing Polynomials

Divide each polynomial. Put remainders in fractional form.

1) $(h^3 + 17h^2 - 16h + 11) \div (h - 6)$

$h^2 + 23h + 122 + \dfrac{743}{h - 6}$

6) $(2y^2 + 17) \div (y - 3)$

$2y + 6 + \dfrac{35}{y - 3}$

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

$2g + 18 + \dfrac{180}{g - 9}$

7) $(- 4z^2 + 9) \div (z - 2)$

$-4z - 8 - \dfrac{7}{z - 2}$

3) $(- 3y^2 + 8y + 11) \div (y + 5)$

$-3y + 23 - \dfrac{104}{y + 5}$

8) $(2q^3 - 9q^2 + 11q - 15) \div (q - 7)$

$2q^2 + 5q + 46 + \dfrac{307}{q - 7}$

4) $(- c^3 - 7c^2 + 6c - 6) \div (c + 2)$

$-c^2 - 5c + 16 - \dfrac{38}{c + 2}$

9) $(- 4b^3 - 12b^2 + 8b - 5) \div (b + 5)$

$-4b^2 + 8b - 32 + \dfrac{155}{b + 5}$

5) $(4g^2 + 6) \div (g - 6)$

$4g + 24 + \dfrac{150}{g - 6}$

10) $(p^3 + 6p^2 + 15p - 15) \div (p + 3)$

$p^2 + 3p + 6 - \dfrac{33}{p + 3}$