Dividing Polynomials with Long Division

Show work for credit!

Name: Key

Date:

Divide.

1) $(k^3 - 8k^2 + 16k - 5) \div (k - 5)$

$k^2 - 3k + 1$

2) $(6p^3 - 7p^2 - 6p + 7) \div (p - 1)$

$6p^2 - 1p - 7$

3) $(x^3 + 5x^2 + 11x + 28) \div (x + 4)$

$x^2 + x + 7$

4) $(20r^3 + 66r^2 + 20r - 50) \div (4r + 10)$

$5r^2 + 4r - 5$

5) $(3n^3 + 26n^2 + 56n + 35) \div (3n + 5)$

$n^2 + 7n + 7$

6) $(5m^3 + 38m^2 + 58m + 16) \div (5m + 8)$

$m^2 + 6m + 2$

7) $(-8x^4 - 42x^3 - 40x^2) \div (2x + 8)$

$-4x^3 - 5x^2$

8) $(9n^4 - 68n^3 + 31n^2 + 55n + 12) \div (9n + 4)$

$n^3 - 8n^2 + 7n + 3$