

Essential Skills: Factoring and Dividing Polynomials Date _____ Period _____

Factor each completely.

1) $4n^3 - n^2 - 20n + 5$

2) $2n^2 - 11n + 12$

3) $4x^3 + 8x^2 - 140x$

4) $6k^3 - 40k^2 + 50k$

5) $x^4 + 11x^2 + 24$

6) $9n^2 - 25$

7) $r^2 - 4r + 4$

8) $8x^3 + 1$

Divide.

9) $(7n^3 + 59n^2 + 10n - 3) \div (7n + 3)$

10) $(x^3 + 5x^2 + 8) \div (x + 5)$