Name: _____   Date: _____

Learning Goal 3.2	Factoring, including the factor theorem and the remainder theorem.

Assignment

1. Divide each of the following and provide a division statement. Identify any restrictions on the variable.
    a. $m^2 - 7m - 11$ by $m - 8$.
    b. $n^2 - n - 29$ by $n - 6$.
    c. $n^2 + 10n + 18$ by $n + 5$.
    d. $k^2 - 7k + 10$ by $k - 1$.
    e. $2x^2 - 17x - 38$ by $2x + 3$.
    f. $33 - 42x^2$ by $7x + 7$.
    g. $x^3 + 7x^2 + 14x + 3$ by $x + 2$.
    h. $z^3 - 10z^2 + 20z + 26$ by $z - 5$.
    i. $k^3 - 30k - 18 - 4k^2$ by $3 + k$.
    j. $-5x^2 + x^3 + 8x + 4$ by $-1 + x$.
    k. $50p^3 + 10p^2 - 35p - 7$ by $5p - 4$