IM3 Name_____

Factoring: Synthetic Division

Date_____ Period____

Divide the polynomials. Write any remainders as a fraction.

1) $(k^2 + k - 6) \div (k - 1)$

2) $(n^2 + 3n - 9) \div (n + 4)$

3) $(b^2 + 3b + 3) \div (b + 1)$

4) $(n^2 + 2n - 12) \div (n + 5)$

5) $(n^2 + 7n + 11) \div (n + 2)$

6) $(m^3 + 5m^2 - 4) \div (m + 1)$

7) $(a^3 + 2a^2 - 6a - 9) \div (a + 3)$

8) $(x^3 + 8x^2 + 11x - 20) \div (x + 4)$