Additional Problems: Polynomials

**Polynomial Division**

1. Does the below equation demonstrate that you can divide polynomials by recognizing division as the inverse operation of multiplication?
2. Does the below equation demonstrate that you can divide polynomials by recognizing division as the inverse operation of multiplication?
3. What is the simplified form of ?
4. What is the simplified form of ?
5. Use long division to divide the polynomial by . What is the quotient?
6. Use long division to divide the polynomial by . What is the quotient?
7. Use long division to find a factor of the polynomial .
8. Use long division to find a factor of the polynomial .
9. Use long division to find a factor of the polynomial .