POLYNOMIALS, DIVISION AND FACTORIZATION

LONG DIVISION OF POLYNOMIALS

Example 1: Divide the polynomial f(x) [illegible]

[illegible]

Example: Use long division to find th

Example 2: $p(x) = x^3 - 3x^2 - x + 3$.

The possible rational zeros a

Example 2B: (GROUPING and FACT

ANSWERS

A.

1) $(x-1)(x+1)(x-4)(x$ [illegible]

4) $x(x+1)(x-2)(x-8)$

2) $(x-2)^2(x-1)$

5) $(x-2)(x^2-x+2)$

3) $(x-2)^2(x+1$ [illegible]

6) $(x+1)(2x-5)(x+2)$

B.

1) $1+\frac{4x+1}{x^2 \ldots}$ [illegible]

4) $x^2-2x+7-\frac{9}{x+2}$

[illegible]