MAT 171 Homework Section 8.3: Partial Fractions

Name:

Write the form of the partial fraction decomposition of the rational expression. It is not necessary to solve for the constants.

1)
$$\frac{11x - 10}{(x-2)(x+1)}$$

2)
$$\frac{6x^2 - 14x - 27}{(x+2)(x-3)^2}$$

3)
$$\frac{5x^2 - 6x + 7}{(x-1)(x^2+1)}$$

Write the partial fraction decomposition of each rational expression.

4)
$$\frac{3x+50}{(x-9)(x+2)}$$

5)
$$\frac{4x^2 + 13x - 9}{x(x-1)(x+3)}$$

$$6) \ \frac{6x-11}{(x-1)^2}$$

7)
$$\frac{x^2 + 2x + 7}{x(x-1)^2}$$