MTH-4106-1

Factoring and Algebraic Fractions

Name:

Date:

Quiz # 9

Express the sums of the following algebraic fractions in lowest terms.
Show all the steps in the solutions. (30 marks)

1. $\dfrac{1}{3-x} + \dfrac{x-2}{x(x-5)}$

2. $\dfrac{m^2}{2m^2+m} + \dfrac{1-m}{2m}$

3. $\dfrac{-b^2 - b + 6}{b^2 + 3b} + \dfrac{b}{b+2}$

Express the differences of the following algebraic fractions in lowest terms.
Show all the steps in the solutions. (20 marks)

4. $\dfrac{4n^2}{n^3} - \dfrac{2n - n^2}{n - 2}$

5. $\dfrac{4}{x + 2} - \dfrac{x + 2}{x}$