MTH-4106-1   Name:

Factoring and Algebraic Fractions

Date:

Quiz # 8

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

1. $\dfrac{16-q^2}{q} \times \dfrac{4q-12}{-16q-4q^2}$

2. $\dfrac{4b^2-4b+1}{b-6} \times \dfrac{b^2-10b+24}{2b^2-9b+4}$

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

3. $\dfrac{4 - x^2 y^2}{x^2 y^2 + 4} \div (x^2 y^2 z^2 - 4z^2)$

4. $\dfrac{16 - x^2}{x - 4} \div \dfrac{x^2 - x - 20}{x - 5}$