

King Fahd University of Petroleum and Minerals
Mathematical Sciences Department
Math 001
Quiz # 3
Term(031)

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Student's Name:.....

ID:SEC: ...

1) Factor each of the following expressions completely:

(a) $10x^3y - 15xy^3 + 25x^2y^2$

(b) $4x^2 - 12xy + 9y^2 - 2x + 3y$

(c) $27(x + y)^3 - 8$

2) Simplify each of the following expressions:

(a) $\frac{x^2y^{-2} - y^2x^{-2}}{yx^{-1} + xy^{-1}} \cdot (y^{-2} - x^{-2})$

(b) $\frac{1}{x-2} + \frac{2-x}{x^2-4} \div \frac{3}{x+2}$