

**King Fahd University of Petroleum and Minerals**  
**Math001- Quiz# 2 Form (B)**

Name: \_\_\_\_\_ ID#: \_\_\_\_\_ Sec#: \_\_\_\_\_

1. Simplify  $\frac{\sqrt[3]{x^2}\sqrt[4]{x^3}}{\sqrt{x^3}\sqrt[3]{x}}$  where  $x > 0$ .

2. Rationalize the denominator of  $\frac{\sqrt{3}-\sqrt{2}}{2\sqrt{3}+3\sqrt{2}}$  and write the result in the simplest form.

3. Rewrite the expression  $3x\sqrt[3]{8x^3y^4} + 4y\sqrt[3]{64x^6y} + \sqrt{\sqrt[3]{64}} - 2$  in the simplest form.

4. Find the coefficient of  $a^2b^3$  in the product  $(a + b)^2(3a - b)^3$ .

5. Which one of the following is a polynomial?

(a)  $x^2 + 3x + 2x^{-1}$ .

(b)  $\frac{x^3+4}{x-7}$ .

(c) 5.

(d)  $2x + \sqrt{x}$ .

(e)  $3\left(\frac{1}{x}\right)^2$ .