

**Radical and Rational Expressions, Equations,
and Functions MCAS Worksheet 1**

Name _____

1 If $x^3 = y$, which equation is always true?

Mark your answer here: 1. (A)(B)(C)(D)

A. $x = \sqrt[3]{y}$

B. $x = \frac{1}{3}y$

C. $x = \sqrt[3]{3y}$

D. $x = y^3$

2 For all values of x other than zero, which of the following expressions is equivalent to the one shown below?

Mark your answer here: 2. (A)(B)(C)(D)

$$\frac{24x^2 - 40x^3}{8x}$$

A. $3x - 5x^2$

B. $3x - 40x^2$

C. $-2x^2$

D. $-16x^2$

3 Which of the following is closest to the value of $\sqrt{72}$?

Mark your answer here: 3. (A)(B)(C)(D)

A. 8.1

B. 8.5

C. 8.9

D. 9.3



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- 4** If the denominator is not zero, which of the following is equivalent to the expression below?

Mark your answer here: 4. (A)(B)(C)(D)

$$\frac{6x^3 - 12x^2 - 9x}{3x}$$

- A. $6x^3 - 12x^2 - 3$
B. $2x^2 - 12x^2 - 9x$
C. $6x^2 - 4x - 3$
D. $2x^2 - 4x - 3$

- 5** What is the solution to the equation $\sqrt{x} = 16$?

Write your answer here:

