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MATHEMATICS PROFICIENCY (Advance Algebra and Statistics)

Directions: This subtest is a measure of ability to think out solutions to quantitative problems. Solve each problem carefully and then decide which is the best among the answer choices. Blacken the circle it corresponds to after the appropriate item number on your answer sheet.

Notes:

► Calculators of any kind are not permitted. All numbers used are real numbers.

► Figures which accompany problems in this subtest are intended to provide information useful in solving the problems. They are drawn as accurately as possible *except* when it is stated in a specific problem that its figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.

BEGIN HERE:

1. Which of the following expressions is not a function?

a. $y = 2x + 1$

c. $y = \sqrt{x}$

b. $y = \frac{5x - 3}{7}$

d. $y = 9 - x$

2. Given the table below, what is the equation of the given relation?

x	0	1	2	3	4	5
y	1	3	5	7	9	11

a. $y = x$

c. $y = 2x + 1$

b. $y = 2x$

d. $y = 2x - 1$

3. If $f(x) = \frac{1}{x - 3}$, what is the domain of $f(x)$?

a. The domain of $f(x)$ are all real numbers.

b. The domain of $f(x)$ are all real numbers except 0.

c. The domain of $f(x)$ are all real numbers except -3.

Math IV

- 1 -

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