UNIT 30 *Functions*

CSEC Multiple Choice Questions

For each of these questions, choose the option that is TRUE. (Questions 1 -3 from past *CXC* papers.)

1. If $f(x) = 3x^2 + 4x - 5$, then $f(-2) =$

   (A) -49

   (B) -1

   (C) 9

   (D) 23

2.

1	→	3
2	→	5
3	→	7
4	→	9

   Which of the following could describe the mapping above?

   (A) $f: x \rightarrow x + 3$

   (B) $f: x \rightarrow 2x + 1$

   (C) $f: x \rightarrow x^2 + 1$

   (D) $f: x \rightarrow 2x^2 - 3$

3. If $f : x \rightarrow x^2 + 1$, then $f(-3)$ is

   (A) 10

   (B) 7

   (C) -5

   (D) -8

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4. $f(4) = -2$, so $f^{-1}(-2) =$

(A) -4

(B) $-\frac{1}{4}$

(C) $\frac{1}{4}$

(D) 4

5. If $f(x) = x + 1$ and $g(x) = x^2$, then $gf(2) =$

(A) 3

(B) 4

(C) 5

(D) 9

6. $f(x) = 2x - 1$, so $f^{-1}(3) =$

(A) 1

(B) 2

(C) 3

(D) 4

7. $f(x) = \frac{2}{x}$, $ff^{-1}(1) =$

(A) 2

(B) 1

(C) $\frac{1}{2}$

(D) 0

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ANSWERS

1. B
2. B
3. A
4. D
5. D
6. B
7. B