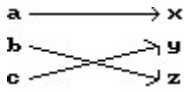
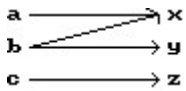
Student: _____ **Instructor:** Fouad Khoury **Assignment:** Quiz 1.2
Date: _____ **Course:** Math-1314

1. Is the following correspondence a function?



- Yes
- No

2. Is the following correspondence a function?



- No
- Yes

3. Find the function value.

Find $f(-6)$ when $f(x) = -3x - 24$.

- **A.** 7
- **B.** 72
- **C.** -24
- **D.** -6

4. Find the function value.

Find $f(-6)$ when $f(x) = 4x - 1$.

- **A.** -12
- **B.** -28
- **C.** 25
- **D.** -25

5. Find the function value.

Find $f(2)$ when $f(x) = x^2 + 2x - 5$.

- **A.** 3
- **B.** 5
- **C.** -5
- **D.** 13

6. Find the function value.

Find f(0) when $f(x) = x^2 + 3x - 5$.

- **A.** 0
- **B.** -5
- **C.** 5
- **D.** 25

7. Find the function value.

Find $f(-3)$ when $f(x) = |x - 2|$.

- **A.** -3
- **B.** 5
- **C.** -5
- **D.** 2

8. Find the function value.

Find f(7) when $f(x) = x^3$.

- **A.** 2,187
- **B.** 21
- **C.** 343
- **D.** 216

9. It has been determined that the number of fish f(t) that can be caught in t minutes in a certain pond using a certain bait is $f(t) = 0.20t + 1$, for $t > 10$. Find the approximate number of fish that can be caught if you fish for 34 minutes. Round to the nearest whole number.

- **A.** About 7 fish
- **B.** About 10 fish
- **C.** About 8 fish
- **D.** About 9 fish

10. The function $P(d) = 1 + \frac{d}{33}$ gives the pressure, in atmospheres (atm), at a depth d feet in the sea. Find the pressure at 54 feet.

- **A.** $\frac{29}{11}$ atm
- **B.** $\frac{7}{11}$ atm
- **C.** $\frac{18}{11}$ atm
- **D.** $\frac{5}{3}$ atm