

UNIT 0 TOPIC 1 QUIZ

Name \_\_\_\_\_

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

**State whether the following represents a function.**

1) Set A: students attending Laughlin Community College 1) \_\_\_\_\_

Set B: social security number of the student

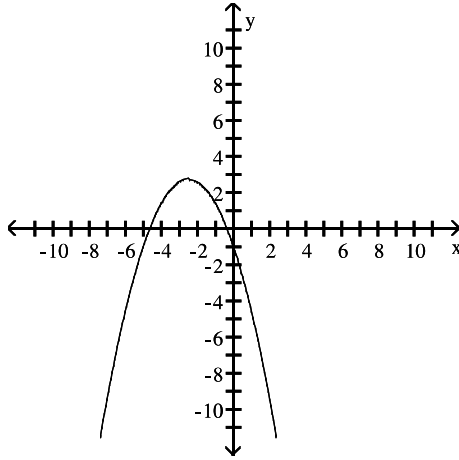
A) Yes B) No

2)  $y = x^3 - 2x + 4$  2) \_\_\_\_\_

A) Yes B) No

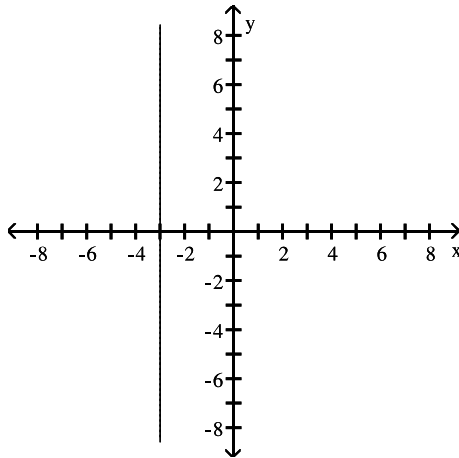
**State whether the graph represents a function.**

3) 3) \_\_\_\_\_



A) Yes B) No

4) 4) \_\_\_\_\_



A) Yes B) No

Evaluate the function at the indicated value.

5)  $f(x) = -7x^2 + 6x + 9$ ;  $f(3)$

A) -36

B) -40

C) 6

D) -46

5) \_\_\_\_\_

6)  $f(x) = x^2 - 4x + 6$ ;  $f(a + h)$

A)  $a^2 + 2ah + h^2 - 4a - 4h + 6$

B)  $a^2 + h^2 - 4a + h + 6$

C)  $a^2 + h^2 - 4a - 4h + 6$

D)  $a^2 + 2ah + h^2 - 4a + 6$

6) \_\_\_\_\_

Simplify the difference quotient for the given function.

7)  $f(x) = -3x + 6 + x^2$

A)  $-3 + a^2 + 2a + h$

B)  $-3 + 2a + h$

C)  $-3a + 2ah + h$

D)  $-3a + h + 6$

7) \_\_\_\_\_

8)  $f(x) = 8x^3$

A)  $24a^2 + 24ah + 8h$

B)  $24a^2 + 24ah + 8h^2$

C)  $24a^2$

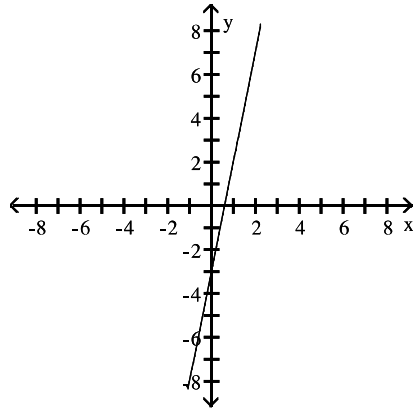
D)  $24a^2 + h$

8) \_\_\_\_\_

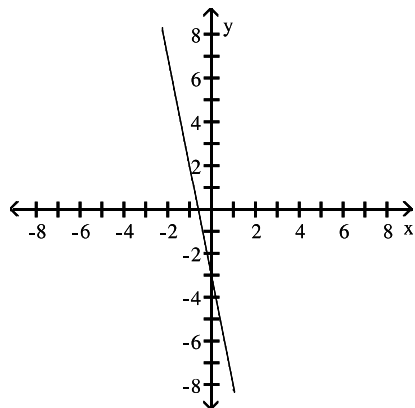
Choose the graph that matches the equation.

9)  $y = 5x - 3$

A)

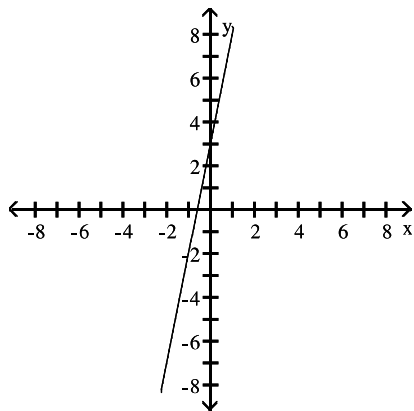


B)

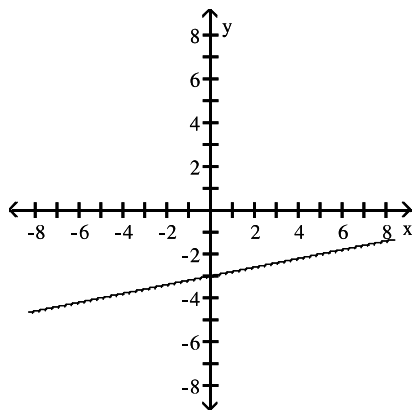


9) \_\_\_\_\_

C)

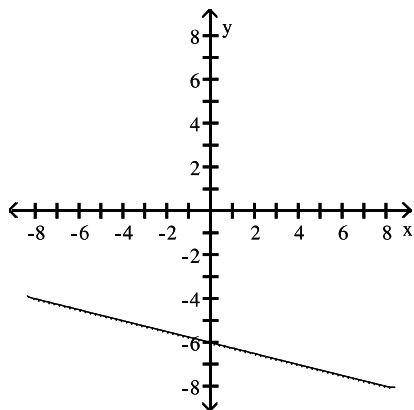


D)



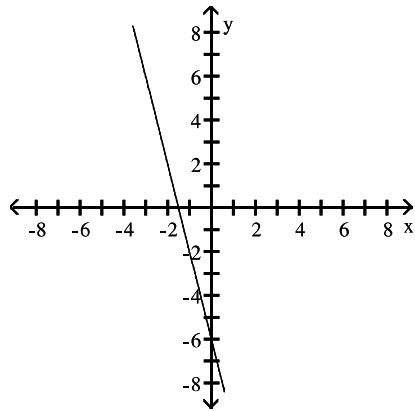
10)  $y = -4x - 6$

A)

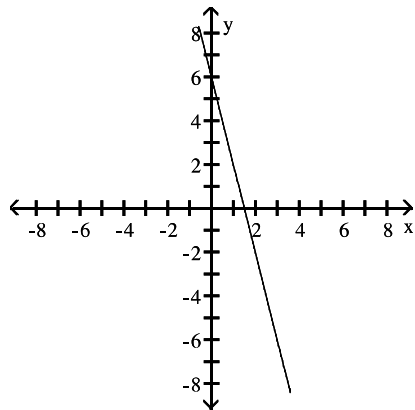


10) \_\_\_\_\_

B)



C)



D)

