

1. Which of the following is the slope of a line that is perpendicular to the line $3x + 5y = 20$?

(A) $-3/5$

(B) $3/5$

(C) $5/3$

(D) None of the above.

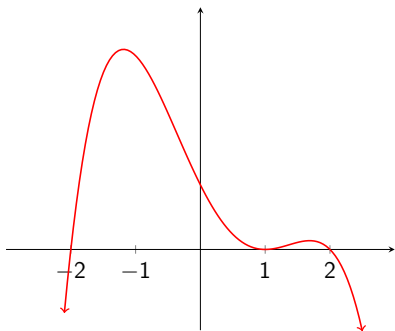
2. The graph of a function f is depicted to the right. Which of the following could be a formula for f ?

(A) $f(x) = -(x - 1)(x^2 - 4)$

(B) $f(x) = (x - 1)(x^2 - 4)$

(C) $f(x) = -(x - 1)^2(x^2 - 4)$

(D) $f(x) = (x - 1)^2(x^2 - 4)$



3. Which of the following is equal to $\log_5 \left(\frac{1}{25} \right)$?

(A) -2

(B) $1/2$

(C) $-1/2$

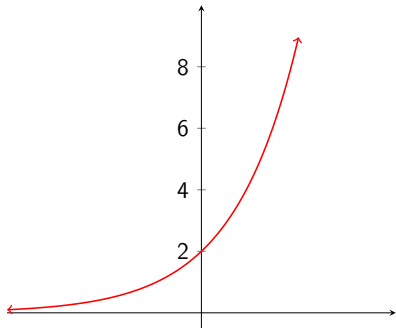
(D) None of the above.

4. The graph of the function f defined by

$$f(x) = ce^x$$

is depicted to the right. What is c ?

- (A) 1
- (B) 2
- (C) 3
- (D) None of the above



5. Which of the following is equal to $8^{3\log_8(2)}$?

(A) 1

(B) 6

(C) 8

(D) None of the above.