

x	-1	0	1	2	3
y	1	2	3	4	5

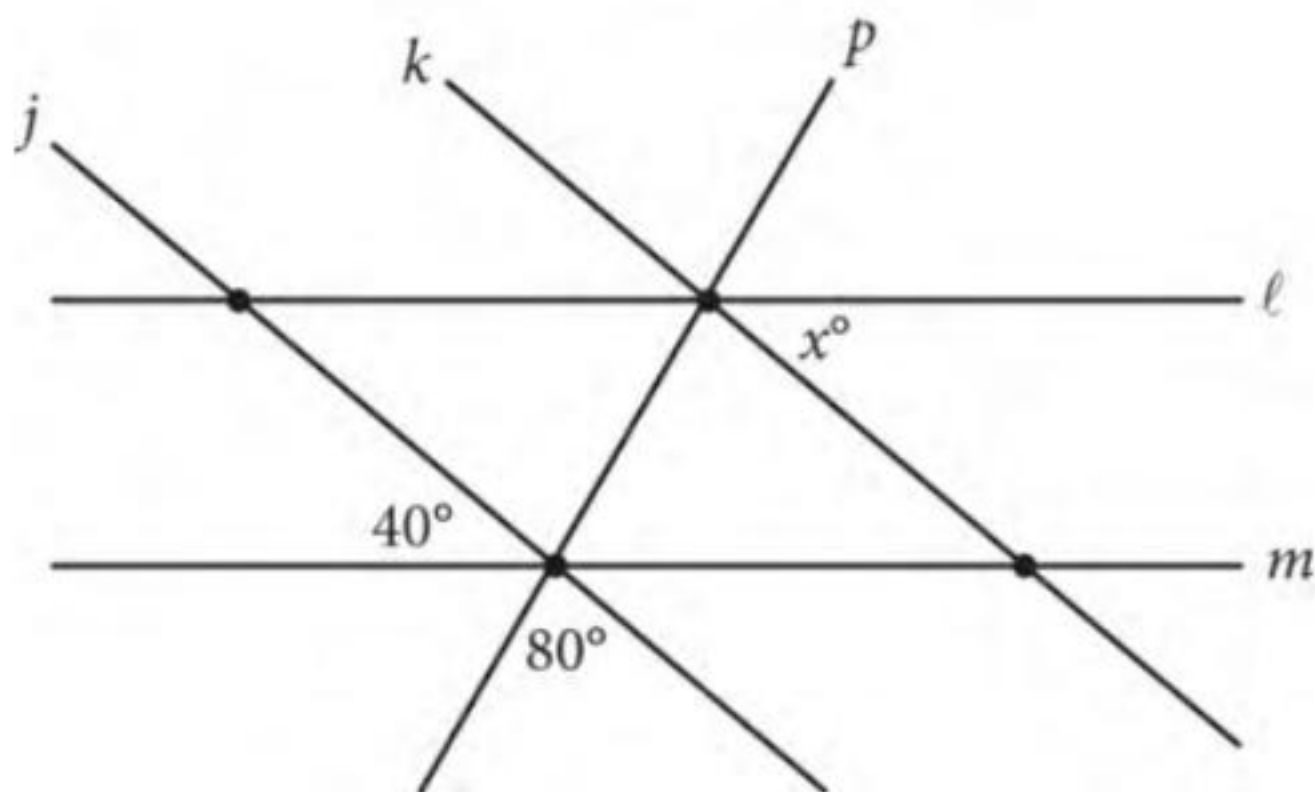
The table above shows some values of x and their corresponding values of y . Which of the following equations shows a possible relationship between x and y ?

A) $y = x + 2$

B) $y = x - 2$

C) $y = 2x + 3$

D) $y = 3x - 2$



In the figure shown, line j is parallel to line k and line ℓ is parallel to line m . What is the value of x ?

- A) 40
- B) 60
- C) 80
- D) 100

The function f is defined by $f(x) = x^2 - 5x + 6$.
What is the value of $f(4)$?

- A) 0
- B) 2
- C) 12
- D) 30

Aracely can spend up to a total of \$20 on streamers and balloons for a party. Streamers cost \$1.49 per pack, and balloons cost \$4.39 per pack. Which of the following inequalities represents this situation, where s is the number of packs of streamers Aracely can buy, and b is the number of pack of balloons Aracely can buy? (Assume there is no sales tax.)

A) $1.49s - 4.39b \leq 20$

B) $1.49s + 4.39b \leq 20$

C) $1.49s - 4.39b \geq 20$

D) $1.49s + 4.39b \geq 20$

Bill is planning to drive 1,000 miles to visit his family. If he plans to drive 250 miles per day, which of the following represents the remaining distance d , in miles, that Bill will have to drive to reach his family after driving for n days?

A) $d = 1,000 + 250n$

B) $d = 1,000n - 250$

C) $d = 250n - 1,000$

D) $d = 1,000 - 250n$

$$(x^3 + x) + (x^2 - x)$$

Which of the following is equivalent to the given expression?

A) $x^5 - x^2$

B) $x^5 - x^4 + x^3 - x^2$

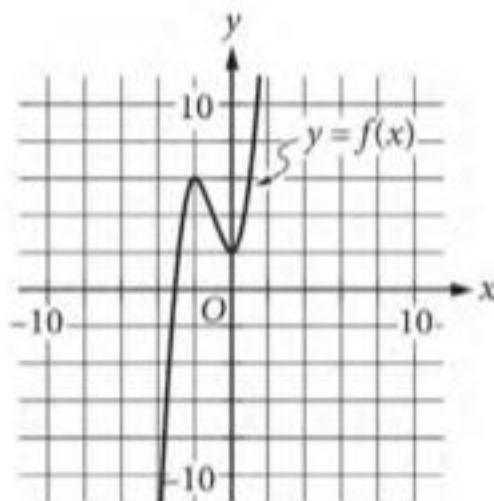
C) $x^3 + x^2$

D) $x^3 + x^2 + 2x$

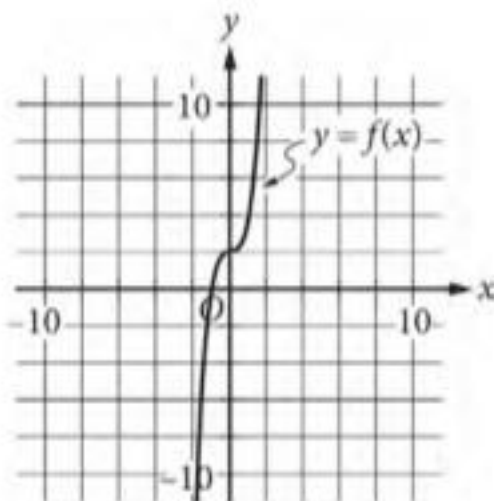
x	$f(x)$
-2	-2
-1	3
0	2
1	7
2	30

The table gives some values of x and the corresponding values of $f(x)$ for polynomial function f . Which of the following could be the graph of f in the xy -plane, where $y = f(x)$?

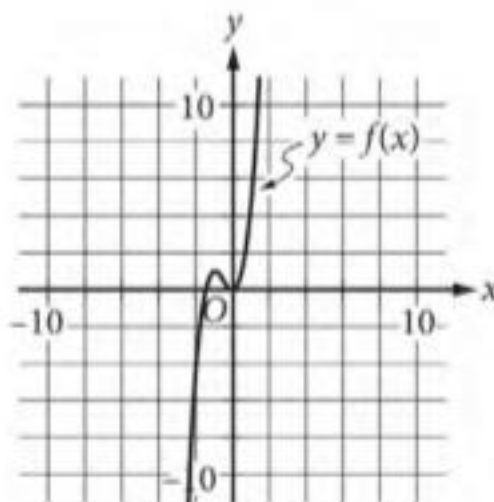
A)



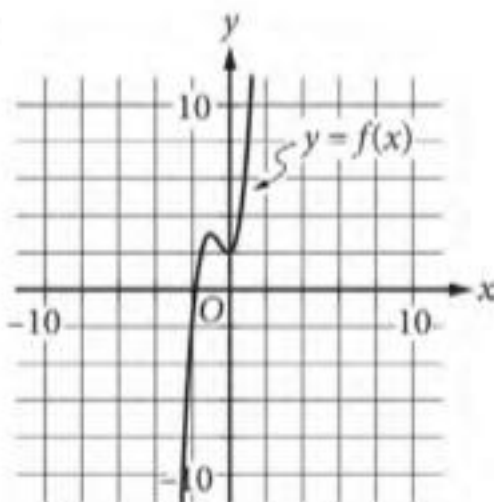
B)



C)



D)



$$\frac{x+2}{(x+2)^2}$$

Which of the following expressions is equivalent to the given expression, where $x \neq -2$?

A) $x + 2$

B) $\frac{1}{x+2}$

C) $x^2 + 2x + 4$

D) $\frac{1}{x^2 + 2x + 4}$

Which of the following is an equation of the line in the xy -plane that contains the points $(1, 3)$ and $(5, 15)$?

A) $y = 3x$

B) $y = 2x + 5$

C) $y = x + 2$

D) $y = \frac{1}{3}x$