

MODULE 2

LESSON 2

QUIZ

1. Question. Which of the following techniques applies best to factor $P(x) = 2x^3 - 4x^2 - 6x$?

A. Grouping and factoring out the greatest common factor in each group.

B. Finding the greatest common factor and factoring trinomial.

C. Applying the sum and difference of cubes formulas.

D. No technique applies, polynomial is prime.

Go to answer 1

2. Question. Which of the following is a factor of $P(x) = 2x(x - 1)^2 + (x - 1)$?

A. $2x$

B. $(x - 1)^2$

C. $(x - 1)^3$

D. $2x^2 - 2x + 1$

Go to answer 2

3. Question. Which of the following statements about a polynomial function $P(x)$ is true given that $x = 5$ and $x = -2$ are roots of the equation $P(x) = 0$?

A. The binomials $(x + 5)$ and $(x - 2)$ are factors of the polynomial function $P(x)$.

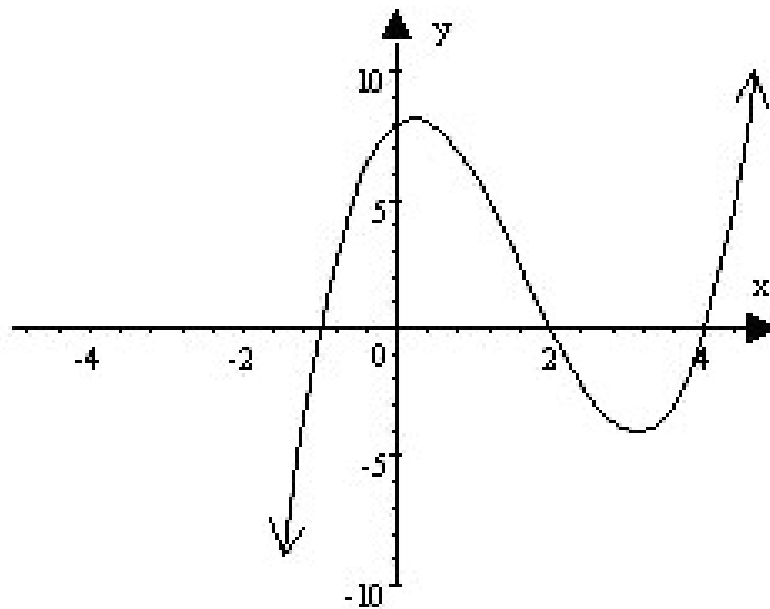
B. The points $(0, 5)$ and $(0, -2)$ are x -intercepts of the graph of the polynomial function $P(X)$.

C. $P(5) = 0$ and $P(-2) = 0$.

D. $P(x) = x^2 + 3x - 10$.

Go to answer 3

4. Question. Let $P(x)$ be a polynomial function such that $\{-2, 1, 4\}$ is the solution set for the equation $P(x) = 0$.
- A. $P(x) = (x + 2)(x - 1)(x - 4)$.
- B. Zeros of the polynomial function $P(x)$ are $x = 2$, $x = -1$, $x = -4$.
- C. The polynomial function $P(x)$ is a quadratic function.
- D. The graph of the polynomial function $P(x)$ is



Go to answer 4

5. Question. Which of the following is the value of the polynomial $P(x) = 2x^3 - 4x - 15$ evaluated at $x = -2$?

A. $P(-2) = -23$

B. $P(-2) = -7$

C. $P(-2) = -39$

D. $P(-2) = 9$

Go to answer 5

1. Answer to Question 1 is "B".
Go back 1

2. Answer to Question 2 is "D".
Go back 2

3. Answer to Question 3 is "C".
Go back 3

4. Answer to Question 4 is "A".
Go back 4

5. Answer to Question 5 is "A".
Go back 5