MODULE 2

LESSON 6

QUIZ

1. Question. Which of the following is the possible number of positive and negative zeros of $f(x) = 3x^3 + x^2 - 8x + 10$

A. 1 negative and 2 positive zeros or 1 negative and 0 positive zeros.

B. 2 negative and 1 positive zeros or 0 negative and 1 positive zeros.

C. 1 negative and 1 positive zero.

D. 0 negative and 2 positive zeros or 0 negative and 0 positive zeros

Go to answer 1

2. Question. Which of the following statements is true about $P(x) = 28x^3 + 152x^2 + 40x + 15?$

A. The left side of the graph goes up and the right side of the graph goes down.

B. All 3 zeros of P(x) could be non-real since there are no variations of signs in P(x).

C. 3 is a possible rational zero of P(x).

D. It is possible for P(x) to have 1 negative and 1 positive real zeros and 1 non-real zero.

Go to answer 2

3. Question. Which of the following are all the zeros of $P(x) = x^4 - 2x^3 - 3x^2 + 4x + 4$?

A. -1, 2

B. -2, -1, 1, 2

C. -4, -1, 1, 2D. -2, 1Go to answer 3

4. Question. Which of the following sets include all zeros of $P(x) = 6x^4 - 11x^3 - 22x^2 + x + 6$? A. $\{-3, -\frac{1}{2}, \frac{2}{3}, 1\}$ B. $\{-1, -\frac{2}{3}, \frac{1}{2}, 3\}$

 $C.\{-1, -\frac{1}{2}(of multiplicity 2), 6\}$

D.
$$\{-1, -\frac{1}{2}, \frac{2}{3}, 3\}$$

Go to answer 4

- 5. Question. Which of the following are possible graphs of $P(x) = x^3 9x^2 + 20x 12?$
 - I.







III.







- A. I and IIIB. II and III
- C. II and IV
- D. I and IV
- Go to answer 5

- 1. Answer to Question 1 is "A". 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 "C". Go back 4
- 5. Answer to Question 5 is "B". Go back 5