## MODULE 2 <br> LESSON 6 QUIZ

1. Question. Which of the following is the possible number of positive and negative zeros of $f(x)=3 x^{3}+x^{2}-8 x+10$
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 $P(x)=28 x^{3}+152 x^{2}+40 x+15 ?$
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 $\mathrm{P}(\mathrm{x})$.
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 $P(x)=$ $x^{4}-2 x^{3}-3 x^{2}+4 x+4$ ?
A. $-1,2$
B. $-2,-1,1,2$
C. $-4,-1,1,2$
D. $-2,1$

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

Go to answer 4
5. Question. Which of the following are possible graphs of $P(x)=$ $x^{3}-9 x^{2}+20 x-12$ ?
I.

II.

III.

IV.

A. I and III
B. 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
