MODULE 2

LESSON 3

QUIZ

1. Question. Which of the following factors correspond to the zeros $-2, \frac{3}{4}, 0$?

   A. $(x-2), (3x+4), (x)$

   B. $(x+2), (4x-3), (x)$

   C. $(x-2), (4x+3), (x)$

   D. $(x+2), (3x-4), (x)$

   Go to answer 1

2. Question. Let $P(x)$ be the polynomial of lowest degree with real coefficients and zeros of $3, -7, i$. Which of the following represents the polynomial $P(x)$?

   A. $P(x) = x^4 + 4x^3 - 20x^2 + 4x - 21$

   B. $P(x) = x^3 + (4-i)x^2 - (21+4i)x + 21i$

   C. $P(x) = x^4 + 4x^3 - (21-2i)x^2 - 4i2x + 21i$

   D. $P(x) = x4 - 4x3 - 20x2 - 4x - 21$

   Go to answer 2

3. Question. Which of the numbers below is the value of the leading coefficient for the polynomial $P(x)$ with real coefficients which satisfies the following conditions: 2 is a zero of $P(x)$ of the multiplicity 2, -1 is a zero of $P(x)$ of the multiplicity 1, $P(-2) = -64$ and $P(x)$ is of lowest degree?

   A. 2

   B. 16

   C. -4

D. 4

Go to answer 3

4. Question. What is the lowest degree of a polynomial $P(x)$ with real coefficients such that -1 is a zero of $P(x)$ of the multiplicity 3 and $2i$ is another zero of $P(x)$?

   A. 4

   B. 5

   C. 2

   D. 3

   Go to answer 4

5. Question. What is the number of x-intercepts of the graph of $P(x) = x^4 + 8x^2 + 16$?

   A. 4

   B. 2

   C. 0

   D. 1

   Go to answer 5

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

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

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

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

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