

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

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