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Math 1201 Unit 3 Graded Quiz

College Algebra (University of the People)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If A = 3 + 2i and B = 4 - i, then AB would be?

Select one:

a. 14 + 5i

b. 10 + 5i

c. 7 + i

d. 10 - 5i

e. None of these

Feedback

Your answer is correct.

The correct answer is: 14 + 5i

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The graph of $f(x) = x^3 - 6x^2 + 4x + 1$ hits the x-axis how many

times?

Select one:

a. 0

b. 1

c. 2

d. 3

e. 4

Feedback

Your answer is correct.

The correct answer is: 3

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The graph of $f(x) = x^2 + 6x + 10$ hits the x-axis how many times? Select one:

- a. 0
- b. 1
- c. 2
- d. 3
- e. 4

Feedback

Your answer is correct.

The correct answer is: 0

Question 4

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What is i103?

Select one:

- a. 1
- b. -1
- c. i
- d. -i

e. None of these

Feedback

Your answer is correct.

The correct answer is: -

Question 5

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

If I know a real root of $f(x) = x^3 - 6x^2 + 11x - 6$ is neither 1, even, or negative, a good guess would be?

Select one:

a. 0

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- b. 3
- c. 6
- d. 11
- e. None of these

Feedback

Your answer is correct.

The correct answer is: 3

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If A = 4 + 2i and B = 7 - 3i, A - B = ?

Select one:

- a. -3 + 5i
- b. -3
- c. -3 i
- d. -3 + i
- e. 1 + 9i

Feedback

Your answer is correct.

The correct answer is: -3 + 5i

Question **7**

Correct

Mark 1.00 out of 1.00

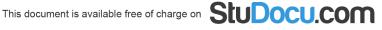
Flag question

Question text

The graph of $f(x) = 6x^5 - 5x^4 + 12x^3 + 8x^2 + 2x + 9$ would have, at most, how many x-intercepts?

Select one:

- a. 0
- b. 2
- c. 5
- d. 6
- e. 9



Feedback

Your answer is correct.

The correct answer is: 5

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If $f(x) = x^8 - 1$ is divided by x -2, the remainder would be?

Select one:

a. -1

b. 0

c. 1

d. 255

e. None of these

Feedback

Your answer is correct.

The correct answer is: 255

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If A = 3 and B = 4 + i, A/B = ?

Select one:

a. 3/4

b. 12/17 - (3/17)i

c. 12/5 + (3/5)i

d. 12/17 + (3/17)i

e. None of these

Feedback

Your answer is correct.

The correct answer is: 12/17 - (3/17)i

Question 10

Correct

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Mark 1.00 out of 1.00

Flag question

Question text

What is $f(x) = x^8 - 1$ divided by x - 1?

Select one:

a. $x^2 + 1$

b. $x^2 - 1$

C. $X^7 + X^6 + X^5 + X^4 + X^3 + X^2 + X + 1$

d. $X^6 + X^5 + X^4 + X^3 + X^2 + X + 1$

 $e. X^7 + X^6 + X^5 + X^4 + X^3 + X^2 + X$

Feedback

Your answer is correct.

The correct answer is: $x^7 + x^6 + x^5 + x^4 + x^3 + x^2$