



Graded Quiz Unit 3 for math 1201 UoPeople

College Algebra (University of the People)

Graded Quiz Unit 3

The real roots of $(x^4 - 1)(x^4 + 2) = 0$ are:

Select one:

a.

-2, 1

b.

-1, 2

c.

1, 2

d.

-1, 1

e.

None of these

Feedback

Your answer is correct.

The correct answer is: -1, 1

Question 2

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The quotient of $4x^3 + 10x^2 - 6x - 20$ by $x + 2$ is:

Select one:

a.

$$-4x^2 - 2x + 10$$

b.

$$4x^2 + 2x - 10$$

c.

$$-4x^2 + 2x - 10$$

d.

$$-4x^2 + 2x + 10$$

e.

None of these

Feedback

Your answer is correct.

The correct answer is: $4x^2 + 2x - 10$

Question 3

Correct

Mark 1.00 out of 1.00

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Question text

If $f(x)$ has odd degree and negative leading coefficient, as x goes to $-\infty$, then $f(x)$ would go to?

Select one:

a.

$-\infty$

b.

0

c.

1

d.

∞

e.

None of these

Feedback

Your answer is correct.

The correct answer is: ∞

Question 4

Correct

Mark 1.00 out of 1.00

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Question text

The product $(1 + i + i^2 + i^3 + i^4 + i^5) \cdot (1 + i + i^2 + i^3 + i^4 - i^5)$ is:

Select one:

a.

0

b.

1

c.

2

d.

3

e.

None of these

Feedback

Your answer is correct.

The correct answer is: 2

Question 5

Correct

Mark 1.00 out of 1.00

Not flaggedFlag 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 6

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The remainder of $x^8 + 1$ divided by $x + 1$ is:

Select one:

a.

1

b.

2

c.

3

d.

4

e.

None of these

Feedback

Your answer is correct.

The correct answer is: 2

Question 7

Correct

Mark 1.00 out of 1.00

Not flaggedFlag 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

Not flaggedFlag 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 9

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

The roots of $x^2 + \sqrt{5}x - 19 = 0$ are:

Select one:

a.

$$(\sqrt{5} + 9)/2, (\sqrt{5} + 9)/2$$

b.

$$(\sqrt{5} - 9)/2, (\sqrt{5} - 9)/2$$

c.

$$(\sqrt{5} - 9)/2, (\sqrt{5} + 9)/2$$

d.

$$(-\sqrt{5} - 9)/2, (-\sqrt{5} + 9)/2$$

e.

None of these

Feedback

Your answer is incorrect.

The correct answer is: $(-\sqrt{5} - 9)/2, (-\sqrt{5} + 9)/2$

Question 10

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The remainder of $x^8 - 37x^5 + 38x - 37$ divided by x is:

Select one:

a.

37

b.

38

c.

-38

d.

-37

e.

None of these

Feedback

Your answer is correct.

The correct answer is: -37