



Self-Quiz Unit 3 Attempt review 3

College Algebra (University of the People)

Started on Friday, 11 February 2022, 2:53 PM

State Finished

Completed on Friday, 11 February 2022, 2:54 PM

Time taken 1 min 34 secs

Marks 5.00/5.00

Grade 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is $(2 + i\sqrt{2})(2 - i\sqrt{2})$?

Select one:

- ☐ a. 4
- ☒ b. 6
- ☐ c. 8
- ☐ d. 10
- ☐ e. 12



Your answer is correct.

Question **2**

Correct

Mark 1.00 out of 1.00

As x goes to infinity, the graph of $f(x) = 5x^4 - 173x^3 - 16x^2 - 7x - 15$ goes to (points in) what direction?

Select one:

- ☒ a. ∞
- ☐ b. $-\infty$
- ☐ c. 0
- ☐ d. 1
- ☐ e. 5



Your answer is correct.

Question **3**

Correct

Mark 1.00 out of 1.00

If $f(x)$ is a 4th degree polynomial, and has 3 complex numbers as roots, the other root is?

Select one:

- ☐ a. 0
- ☐ b. Real
- ☒ c. Complex
- ☐ d. 1
- ☐ e. None of these



Your answer is correct.

Question **4**

Correct

Mark 1.00 out of 1.00

If $a = 2 + i$, and $b = 3 - 2i$, what is b/a ?

Select one:

- ☒ a. $4/5 - (7/5)i$
- ☐ b. $2 + (1/5)i$
- ☐ c. $10 - i$
- ☐ d. $10 + i$
- ☐ e. Impossible



Your answer is correct.

Question **5**

Correct

Mark 1.00 out of 1.00

What are the possible rational roots of $f(x) = x^4 - 173x^3 - 16x^2 - 7x - 15$, according to the rational root theorem? " \pm " means "plus or minus".

Select one:

- ☐ a. $\{1, 3, 5, 15\}$
- ☒ b. $\{\pm 1, \pm 3, \pm 5, \pm 15\}$
- ☐ c. $\{\pm 1/15, \pm 3/15, \pm 1, \pm 3, \pm 5, \pm 15\}$
- ☐ d. $\{\pm 1, \pm 5, \pm 1/3, \pm 5/3, \pm 1/5, \pm 1/15\}$
- ☐ e. None of these



Your answer is correct.

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