

Algebra II Practice Quiz 5.5**Numeric Response**

1. (1 point) What value of d makes the equation $-2 + 3i + 12i = 9i - (2 - di)$ true?

Short Answer

2. (5 points) Find the values of x and y that make the equation $4x + 2i = 16 - (8y)i$ true.

3. (5 points) Find the zeros of the function $f(x) = x^2 - 8x + 65$.

4. (5 points) Find the complex conjugate of $2i + 13$.

5. (5 points) Express $5\sqrt{-75}$ in terms of i .

6. (5 points) Solve the equation $5x^2 + 180 = 0$.

Algebra II Practice Quiz 5.5

Answer Section

NUMERIC RESPONSE

1. ANS: 6

PTS: 1

SHORT ANSWER

2. ANS:

$$x = 4, y = -\frac{1}{4}$$

PTS: 5

REF: Page 351

3. ANS:

$$x = 4 + 7i \text{ or } 4 - 7i$$

PTS: 5

REF: Page 352

4. ANS:

$$13 - 2i$$

PTS: 5

REF: Page 352

5. ANS:

$$25i\sqrt{3}$$

PTS: 5

REF: Page 350

6. ANS:

$$x = \pm 6i$$

PTS: 5

REF: Page 351