

Algebra II Quiz 5.9A**Short Answer**

1. (1 point) Graph the complex number 3.

2. (1 point) Graph the complex number $4 + 3i$.

3. (1 point) Graph the complex number $-3i$.

4. (1 point) Graph the complex number $-1 + 2i$.

5. (1 point) Find the absolute value $|-6 - 8i|$.

6. (1 point) Find $(4 + 5i) + (-3 - 4i)$ by graphing on the complex plane.

7. (1 point) Simplify $-7i^{23}$.

8. (5 points) Subtract. Write the result in the form $a + bi$.
 $(-4 + 6i) - (-5 - 8i)$

9. (5 points) Multiply $6i(5 - 6i)$. Write the result in the form $a + bi$.

Name: _____

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10. (5 points) Simplify $\frac{-3+2i}{-2+3i}$.

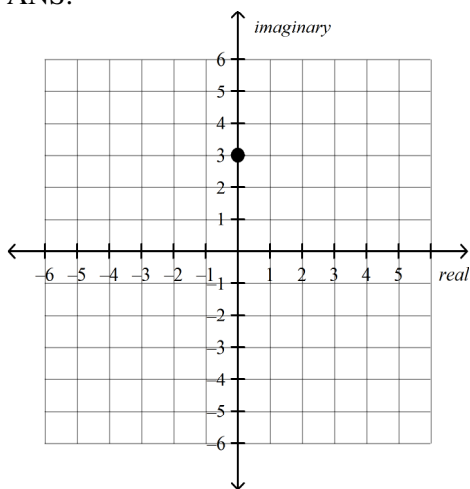
11. (5 points) What expression is equivalent to $(3-2i)^2$?

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Answer Section

SHORT ANSWER

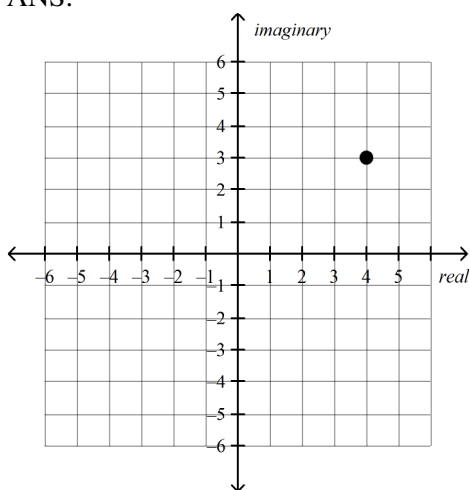
1. ANS:



PTS: 1

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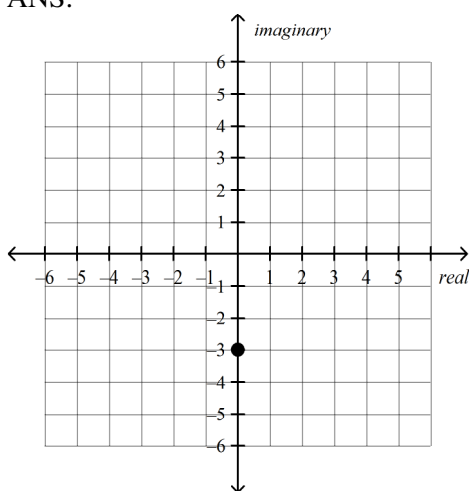
2. ANS:



PTS: 1

REF: Page 382

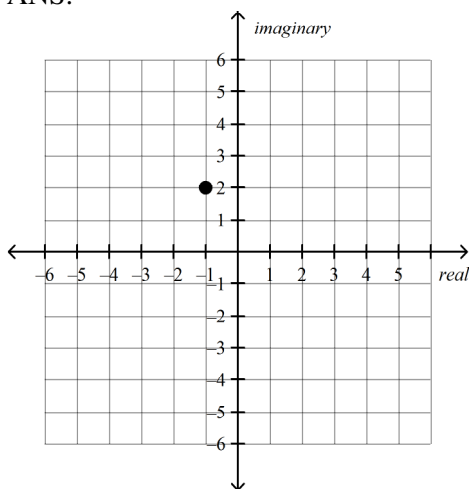
3. ANS:



PTS: 1

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4. ANS:



PTS: 1

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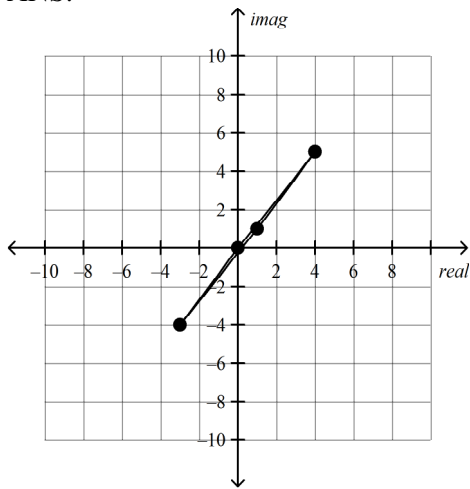
5. ANS:

10

PTS: 1

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6. ANS:



Sum: $1 + i$

PTS: 1

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7. ANS:

$7i$

PTS: 1

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8. ANS:

$1 + 14i$

PTS: 5

REF: Page 383

9. ANS:

$36 + 30i$

PTS: 5

REF: Page 384

10. ANS:

$\frac{12}{13} + \frac{5}{13}i$

PTS: 5

REF: Page 385

11. ANS:

$5 - 12i$

PTS: 5