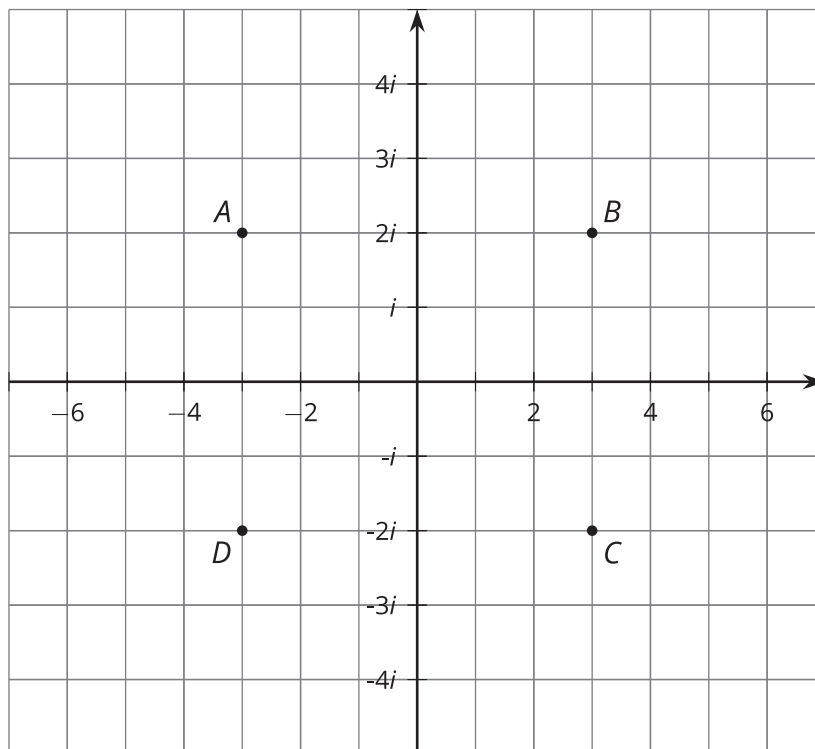


## Lesson 11 Practice Problems

1. Which point represents the complex number  $-3 + 2i$ ?



- A. A
- B. B
- C. C
- D. D

2. Match each expression to an equivalent expression.

- |                  |           |
|------------------|-----------|
| A. $2i \cdot 8$  | 1. $-16$  |
| B. $16i^3$       | 2. $16$   |
| C. $(2i)^4$      | 3. $-16i$ |
| D. $2i \cdot 8i$ | 4. $16i$  |

3. a. Diego squared a number and got 4. Andre squared a different number and got 4. What were the numbers that Diego and Andre squared?
- b. Jada squared a number and got -4. Elena squared a different number and got -4. What were the numbers that Jada and Elena squared?
4. Find **all** solutions to each equation.
- a.  $a^2 = 1$
- b.  $b^2 = 13$
- c.  $c^2 = -9$
- d.  $d^2 = -5$

5. Find the exact solution(s) to each of these equations, or explain why there is no solution.

a.  $\sqrt[3]{a+2} = 4$

b.  $\sqrt[3]{b} + 5 = 4$

c.  $\sqrt[3]{c-1} - 14 = -4$

(From Unit 3, Lesson 8.)

6. Explain how you know that  $\sqrt{-1}$  is not a negative number.

(From Unit 3, Lesson 10.)