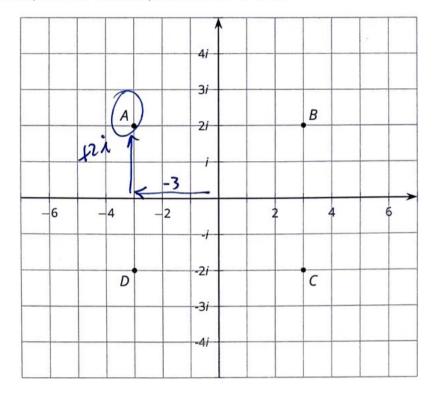
SOLUMS

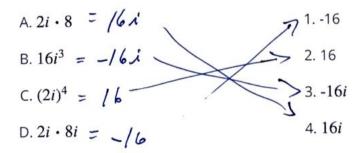
Lesson 11 Practice Problems

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





- B. B
- C. C
- D. D
- 2. Match each expression to an equivalent expression.





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.
$$a^2 = 1$$
 $a = 1, -1$

b.
$$b^2 = 13$$
 $b = £ \sqrt{13}$

$$c. c^2 = -9$$
 $C = 3i$, $-3i$

$$d. d^2 = -5$$

$$d = \pm i\sqrt{5}$$



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

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

cube each side

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

$$b = -1$$

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

C= 1001

(From Unit 3, Lesson 8.)

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

when you square a negative ral number, you get a positive number.

(From Unit 3, Lesson 10.)

(V-1) = -1, you get a regative

number, not a positive number.

Som Merefore, J-1 is not negative