Assignment: Quiz 1.6

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1. Solve.

$$3x^3 + x^2 - 3x - 1 = 0$$

- $\bigcirc$  **A.** 1, -1,  $-\frac{1}{3}$
- B. -1,3
- c. 1, -1
- O D. 1,  $\frac{1}{3}$

2. Solve.

$$x - 5\sqrt{x} - 24 = 0$$

- A. -8i,8i
- OB. 64
- $\bigcirc$  **C.** -64, 64, -3 *i*, 3 *i*
- **D.** −64, −9, 9, 64

3. Solve.

$$x^4 - 19x^2 + 48 = 0$$

The solution is x =

(Simplify your answer. Type an exact answer, using radicals as needed. Express complex numbers in terms of i. Use a comma to separate answers as needed.)

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

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is x = \_\_\_\_.
  (Simplify your answer. Type an integer or a fraction. Use a comma to separate answers as needed.)
- O B. There is no solution.
- 5. Solve.

$$x - 8 = \sqrt{x - 6}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is x = \_\_\_\_.

  (Simplify your answer. Use a comma to separate answers as needed.)
- OB. There is no solution.

6. Solve  $\sqrt{4y+4} = \sqrt{3y+6}$ .

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is y = \_\_\_\_.

  (Simplify your answer. Type an integer or a fraction. Use a comma to separate answers as needed.)
- OB. There is no solution.