

Passport to Advanced Math Drill 4

This section contains two types of questions. For multiple-choice questions, solve each problem and circle the letter of the answer that you think is the best of the choices given. For Student-Response questions, denoted by the grid-in icon, write your answer in the blank space provided.

1. If $\frac{x^2 + 3x - 10}{x - 2} = 3$, then $x =$

- A) -5
- B) -4
- C) -2
- D) 2

2. If $\sqrt[3]{x+3} = 2$, then $x =$

- A) 5
- B) 1
- C) -1
- D) -3

3. Which of the following is an actual solution to the equation $\sqrt{x+7} - x = 1$?

- A) -3
- B) -2
- C) 2
- D) 3



4. If $\frac{x^2 - x}{x + 4} = \frac{x + 24}{x + 4}$, then what is the value of x ?

5. Which of the following most completely expresses the solution set of the equation $\frac{x+12}{x-3} = \frac{x^2}{x-3}$?

- A) $x = -4$
- B) $x = -4, 3$
- C) $x = -3, 4$
- D) $x = 4$