

Power Up! Test Practice

21. Determine if each system of equations has no solution, one solution, or infinitely many solutions. Select the correct answer.

a. $y = 3x - 1$ ☐ no solution ☐ one solution ☐ infinitely many solutions
 $y = -2x + 4$

b. $y = 4x - 2$ ☐ no solution ☐ one solution ☐ infinitely many solutions
 $y = 4x + 5$

c. $y = -x - 3$ ☐ no solution ☐ one solution ☐ infinitely many solutions
 $y = x$

22. Haitham scored 3 times as many goals as Suleiman. Suleiman scored 4 fewer goals than Haitham. The number of goals scored by each person can be represented by the system of equations below.

$$y = 3x$$

$$y = x + 4$$

Graph these equations on the coordinate plane.

What is the solution to the system of equations? What does this situation represent?

