

Determine whether the ordered pair is a solution of the system of equations

$$4x + y = -4$$

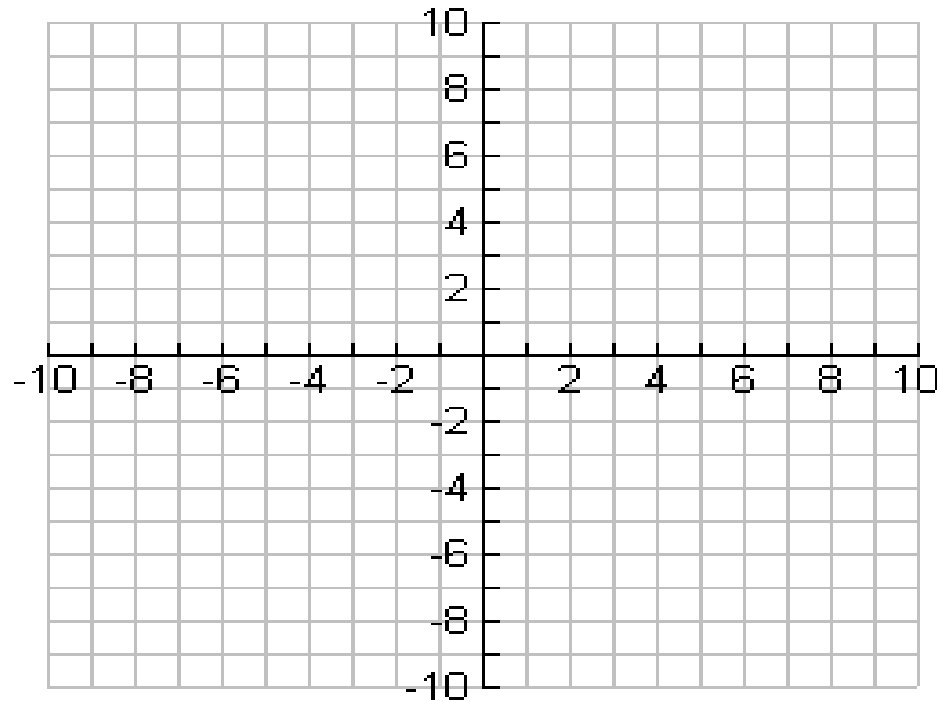
$$-x - y = 1$$

$$(-2, 4)$$

Determine the solution of the system of equations

$$y = 3 + 4x$$

$$-8x + 2y = -6$$



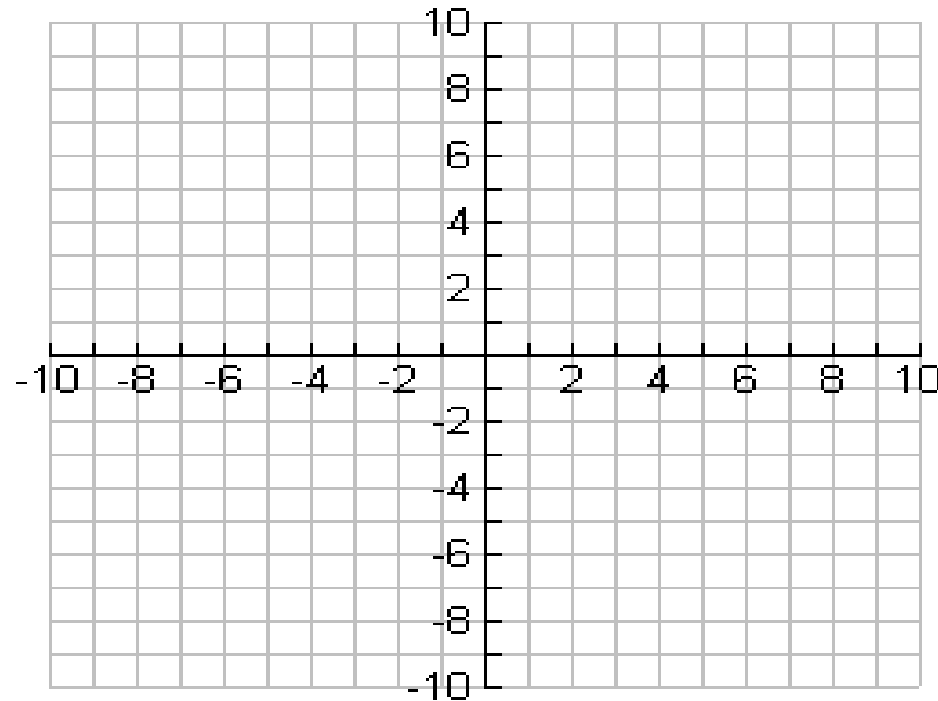
Determine whether the ordered pair is a solution of the system of inequalities

$$x + 2y \leq 4 \quad -2x + y \geq -2 \quad (-2, -1)$$

Graph the system of linear inequalities

$$4x + 2y \leq 8$$

$$3x - y > -3$$



Business A charges \$50 for a service call, plus an additional \$39 per hour for labor.

Business B charges \$32 for a service call, plus an additional \$45 per hour for labor.

Write a system of equations and then use your calculator to solve a system of equations to find the length of a service call for which both businesses charge the same.

A travel agency offers 2 Boston outings.

Plan A includes 3 nights of hotel and 2 baseball tickets. This plan costs \$556.40

Plan B includes 5 nights of hotel and 4 baseball tickets. This plan costs \$973

Write a system and then use your calculator to solve a system of equations to find the cost of one night's hotel accommodation and pair of baseball tickets.