

Academic Recovery for Ch 4/5 test today!

Skill 8: Write the equation of a line parallel or perpendicular to a line, given a point.

1. Write the equation of the line (in slope intercept form) perpendicular to

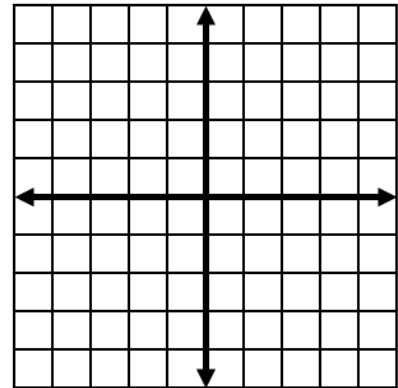
$$y = -\frac{5}{3}x - 2 \quad \text{that goes through the point } (-10, -8)$$

Skill 9: Solve a system of linear equations by graphing. If possible, check your answer.

2.

Line A: $y = -4x$

Line B: $x = 1$



Skill 10: Solve a System of Linear Equations Algebraically.

3. Solve the systems of equations by substitution. If possible, check your answer.

$$y = 3x + 2$$

$$-10 + 5y = 15x$$

4. Solve the systems of equations by elimination. If possible, check your answer.

$$5x + 6y = -8$$

$$2x + 3y = -5$$

CW

1. Write a system of equations to describe each problem, then solve the system algebraically.

<p>A) The sum of two numbers is 5 and their difference is 9. Label variables, write a system of equations and solve to find the two numbers.</p>	<p>B) A farm raises a total of 220 animals that are chickens and pigs. The number of legs of stock in the farm total 520. How many chickens and how many pigs? Label variables, write a system of equations and solve to find the answer.</p>
<p>C) Lucy bought 4 roses and 6 tulips for \$15.38. John bought 3 roses and 4 tulips for \$10.96. Label variables, write a system of equations and solve to find the cost of one rose and the cost of a tulip.</p>	<p>D) An investor bought 3 shares of stock A and 2 shares of stock B for \$41. Stock A costs \$2.00 more than stock B. Label variables, write a system of equations and solve to find the cost of one share of Stock A and one share of stock B.</p>

6.4B Writing Systems of Equations Hwk Tues week 16

HW and additional 3 problems on the back of this page

<p>1. You bought 8 mangoes and 3 apples for \$18 and 3 mangoes and 5 apples for \$14.50. Label variables, write a system of equations and solve to find how much one mango and one apple cost.</p>	<p>2. Max bought 5 toy cars and 6 toy planes for \$43.77. Clive bought 2 cars and 4 planes for \$24.18. Label variables, write a system of equations and solve to find the cost of one car and the cost of a plane.</p>
<p>3. Last Saturday, 45 kids took the SAT. The number of girls was 8 more than the number of boys. Label variables, write a system of equations to find the number of boys and the number of girls who took the SAT last Saturday.</p>	<p>4. The sum of two numbers is 12 and their difference is 4. Label variables, write a system of equations and solve to find the two numbers.</p>

A1 w16d2 6-4 Writing Systems.notebook

Solve each system using substitution or elimination. Tell whether the system has one solution, infinitely many solutions or no solution.

5.
$$\begin{aligned}x - 3y &= -7 \\ 2x &= 6y - 14\end{aligned}$$

6.
$$\begin{aligned}9x + 8y &= 15 \\ 9x + 8y &= 30\end{aligned}$$

7.
$$\begin{aligned}5x - 9y &= -43 \\ 3x + 8y &= 68\end{aligned}$$