

Systems of Linear Equations Unit Test

Solve by graphing.*

$$x + y = -1$$

$$2x - y = 4$$

*check using equivalent forms method

Solve by substitution.

$$3x + 3y = -4$$

$$x + y = 0$$

Solve by combination.

$$3x - 2y = 9$$

$$x - y = 2$$

Tickets to a local movie were sold at \$3.00 for adults and \$1.50 for students. If 260 tickets were sold for a total of \$675.00, how many adult tickets were sold?

The sum of the digits of a two-digit number is 8. If the digits are reversed, the number is 36 less than the original number. Find the original number.

The sum of two numbers is 47. One number is 9 more than the other. Find the two numbers.

A jar containing only nickels and dimes contains a total of 66 coins. The value of all the coins in the jar is \$4.85. How many dimes and nickels are in the jar?

A rental car agency charges \$16 per day plus 11 cents per mile to rent a certain car. Another agency charges \$18 per day plus 8 cents per mile to rent the same car. How many miles will have to be driven for the cost of a car from the first agency to equal the cost of a car from the second agency?

Jose had \$2.20 in nickels and dimes. He has eight more nickels than dimes. How many of each coin does he have?