

Math 70 - Quiz 3 Sections 2.7 and 3.1, Friday February 8th

1). Solve the system of equations below algebraically using your method of choice.

$$x + y = 9$$

$$2x - 3y = -2$$

2). In 2001 the city's hotel workers union negotiated a salary increase for each year of service at a steady rate. If Bill, a hotel worker earned \$30,000 in that year and \$38,000 in 2007:

a). What was Bill's annual salary increase?

b). What function would describe Bill's salary over time? Write the equation.

b). In What year will Bill make \$42,000?