October 18, 2016

3.2 Solving Systems by Substitution y = 300 + 0.01 × y = 150 + 0.04x Replace a Value that is in the other equation 300+0.01x = 150+0.04x

300 + 0.01x = 150 + 0.04x - 150 + 150 - 150 150 +0.01x = 0.04x -0.01x 0.01x $\frac{150}{0.03} = \frac{0.03 \times 0.03}{0.03}$ (5000,350) 5000 = X y= 300 + 0.01x Y= 300 + 0.01(5000) y=300+60 y=350

X + y = 5 Solve for X, Y x+y= 5 2x + 3y = 30y=5-× x+y=5 y=5-(-15) -xy = (5-x)-y=20 2x + 3(5-x) = 302×+15-3x=30 (-15,20) $15 - x = \frac{30}{15}$ -x = 15x=-13

John makes two types of Pizza Pizza A costs 67 and Pizza B cost \$10 B= 3-A A+B=37A + 10B = 257 B-3-(-75.47) 7A+10(3-A)=257 B=78.67 $\begin{array}{c} 7A + 10(3-7) - 20. \\ 7A + 30 - 10A = 257 \\ -30$