## Algebra 2 fBellworkTuesday, January 6, 2015Solve each system of equations using Substitution. Give answers as ordered pairs.1.2. $P = \frac{5}{3}Q - 7$ h = 3g + 5 $P = \frac{7}{6}Q - 4$ 7g - 2h = -8

3.4.m + n = 804j - 7k = -398m + 5n = 4813j + 9k = 42

5. A group of friends went to a ballgame. At the ballgam they bought some hot dogs and some pizza slices.

The number of pizza slices was one less than than twice the number of hot dogs.

Pizza slices cost \$3 each and hot dogs cost \$2.50 each. They spent a total of \$48.

a) Write a system of equations to model this situation. Define your variables.

b) Solve this system of equations to find the number of pizza slices and hot dogs purchased.



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 $P = \frac{7}{6}Q - 4$   $(b_1 3)$   $R = \frac{7}{6}Q - 4$   $(2_1 1)$ 

3. m + n = 80 8m + 5n = 481 4. 4j - 7k = -39 3j + 9k = 42 (-1, 5)

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3P + 2.50H = 4RP = ZH - I

le Hot DOGS 11 p133a slices

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 $p = \pm p_{133q}$ slices

H = I hat days