MAAPC20S

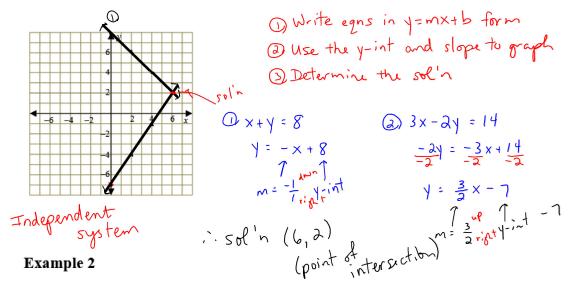
Systems of Linear Relations

Lesson 2

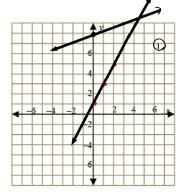
<u>Lesson Two – Solve a Linear System Graphically</u>

Example 1

Solve the linear System: x + y = 8 and 3x - 2y = 14



Don and Kari are police officers. Don is in charge of patrolling a route that can be described by the equation y = 2x + 1. Kari is responsible for patrolling a route that can be described by the equation $y = \frac{1}{3}x + 8$. The police station is located along both of their routes. What are the coordinates of the station?



 $\gamma = 3x + 1$ $\gamma = \frac{1}{3}x + 8$ $(4\frac{1}{3}, 9\frac{1}{4})$ (estimate from the graph MAAPC20S

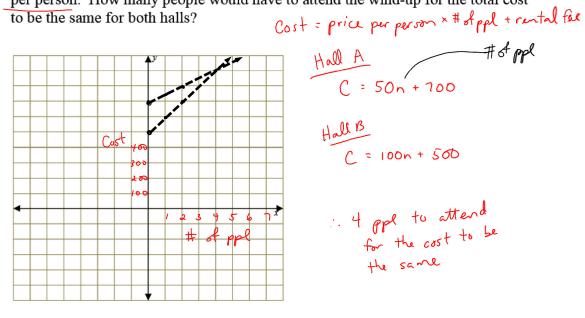
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Lesson 2

Example 3

rate & (1/ope)

A hockey club must make arrangements to book a hall for their wind-up. They have narrowed their choice to two different places. Hall A requires a rental fee of \$700.00 plus \$50.00 per person. Hall B requires \$500.00 for a rental fee plus \$100 per person. How many people would have to attend the wind-up for the total cost to be the same for both halls?



Assignment: Pg. 409; 4, 5 a (iii, iv), 7 (a,b), 8 (graph using intercepts)