

## Solving by Comparison

1. Solve each system of equations.

a)  $y = x - 1$   
 $y = 2x - 3$

b)  $x = -2y + 3$   
 $x = 3y - 7$

c)  $y = 3x - 8$   
 $y = -5x + 6$

d)  $2x + 11 = y$   
 $y = x - 1$

e)  $y = 12x + 24$   
 $y = 16x - 32$

e)  $x = 16y - 9$   
 $23y + 12 = x$

2. Brooke is planning a wedding. She compares the cost of places to hold a reception.

- Limestone Hall: Cost is \$5000 for the hall, plus \$75/guest
- Frontenac Hall: Cost is \$7500 for the hall, plus \$50/guest

a) Write an equation to represent the cost of a reception at each hall.

b) At what point do both halls cost the same?