Thursday, January 8, 2015 Solve each system of equations using substitution. Give answers as ordered pairs. 7a - 3b = 221.  $y = -\frac{4}{3}x + 7$ 8a + b = 348x + 6y = 42

3. Solve this system of equations by first adding the two equations together.

4m - 3n = -236m + 3n = 3

4. Solve this system of equations by first subtracting the two equations.

5c - 4d = 307c - 4d = 42

5. Solve this system of equations by multiplying the first equation by 2 then adding the equations.

-5x + 6y = 1610x + 11y = -9

Thursday, January 8, 2015 Solve each system of equations using substitution. Give answers as ordered pairs. Algebra 1 (4,2) 7a - 3b = 22b = 34 - 8(4) = 34-32 1. 8a + b = 34 - 5a - 5b = 34 - 8a $y = -\frac{4}{3}x + 7$ 8x + 6y = 427a - 3(34 - 8a) = 22 $8x + (e(-\frac{4}{3}x+7) = 42$ 8x - 8x + 42 = 42 42 = 42 MANY SOLUTIONS 7a - 102 + 24a = 22319-102=22 +102 +102 > a=4 31a= 124 3. Solve this system of equations by first adding the two equations together. (-2, 5) 4m - 3n = -236m + 3n = 3+ 10m = -20-3 6(-2) + 3n = 3-12 + 3n = 3+12 + 12M = -24. Solve this system of equations by first subtracting the two equations. (6, 0)5c - 4d = 307c - 4d = 42-2c = -125(6) - 4d = 30- 4d = 30- 4d = 30- 4d = 0- 4d = 0C=6 5. Solve this system of equations by multiplying the first equation by 2 then adding the equations.  $2(-5x + 6y = 16) \longrightarrow -10 \times +12y = 32$  $10x + 11y = -9 \longrightarrow 10 \times +11y = -9$ (-2,1)  $\frac{23y}{23} = \frac{23}{22}$ ¥=1  $10 \times + 11(1) = -9$ 10×+11 = -9  $\frac{10X = -20}{10} \rightarrow X = -2$