January 25, 2013

7b - Solve systems of equations using substitution.







By Substitution:

1. One of the equations must be in x= or y= form (or whatever variables are given).

2. Then substitute (replace) the value into the other equation.

3. Solve for both variables.



$$6x - 2(y = -4 \rightarrow \frac{1}{2}) = \frac{1}{2} = \frac{1}{2}$$





$$\frac{\sqrt{2}}{2} = \frac{1}{2} \sqrt{3x} - 2y = 11$$

$$x + y/2 = 4 = 5 \quad x = 4 - \frac{1}{2}$$

$$\frac{3 \times 2y = 11}{3 (4 - \frac{9}{2}) - 2y = 11}$$

$$\frac{3 (4 - \frac{9}{2}) - 2y = 11}{12 - \frac{3}{2} + - \frac{3}{2} + \frac{9}{2} = -\frac{7}{2}}$$

$$\frac{12 - \frac{7}{2} y = 11}{12 - \frac{7}{2} y = \frac{11}{2}}$$

$$\frac{12 - \frac{7}{2} y = 11}{(\frac{7}{7}) - \frac{3}{8} + \frac{9}{2} + \frac{1}{2}} = -\frac{7}{2}}$$

$$\frac{12 - \frac{7}{2} y = 11}{(\frac{7}{7}) - \frac{3}{8} + \frac{9}{2} + \frac{1}{2}} = -\frac{7}{2}}$$

$$\frac{12 - \frac{7}{2} y = 11}{(\frac{7}{7}) - \frac{3}{8} + \frac{9}{2} + \frac{1}{2}} = -\frac{7}{2}}$$

$$\frac{12 - \frac{7}{2} y = 11}{(\frac{7}{7}) - \frac{3}{8} + \frac{9}{2} + \frac{1}{2}} = -\frac{7}{2}}$$

$$\frac{3x - 2y = 11}{(\frac{7}{7}) - \frac{3}{8} + \frac{9}{2} + \frac{1}{2}} = -\frac{7}{2}}$$

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$$\frac{3x - 2y = 11}{(\frac{7}{7}) - \frac{3}{3}} = -\frac{1}{3}$$

$$\frac{3x - 2y = 11}{(\frac{7}{7}) - \frac{3}{3}} = -\frac{1}{3}$$

$$\frac{3x - 2y = 1}{(\frac{7}{7}) - \frac{3}{3}} = -\frac{1}{3}$$

$$\frac{3x - 2y = 1}{(\frac{7}{7}) - \frac{3}{3}} = -\frac{1}{3}$$

$$\frac{3x - 2y = 1}{(\frac{7}{7}) - \frac{3}{3}} = -\frac{1}{3}$$

$$\frac{3x - 2y = 1}{(\frac{7}{7}) - \frac{3}{3}} = -\frac{1}{3}$$

HW: pg. 379 #16-22 (even) 26, 28 how many solu? Solu? Check

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