

Ex. 2 Solve the system by elimination, and include a proper check.

$3x + 2y = 14$ ① *ELIM Y*
 $2x + 3y = 6$ ② *(check in ②)*

$\times 3$
 $9x + 6y = 42$
 $-4x - 6y = -12$

 $5x = 30$
 $x = 6$

$3(6) + 2y = 14$ *LS = 2x + 3y RS = 6*
 $18 + 2y = 14$ $= 2(6) + 3(-2)$
 $2y = 14 - 18$ $= 12 - 6$
 $2y = -4$ $= 6$
 $y = -2$ $\therefore \text{LS} = \text{RS}$
 $\therefore (6, -2) \text{ is correct!}$

Ex. 3 Solve the system by elimination, and include a proper check.

$$0.4x - 0.1y = 0.7 \quad \textcircled{1}$$

$$0.06x + 0.05y = 0.17 \quad \textcircled{2}$$

$$10 \times \textcircled{1} \quad 4x - y = 7 \quad \textcircled{3}$$

$$100 \times \textcircled{2} \quad 6x + 5y = 17 \quad \textcircled{4}$$

$$5 \times \textcircled{3} \quad 20x - 5y = 35 \quad \textcircled{5}$$

$$\underline{26x = 52}$$

$$x = 2$$

Sub in ①

$$0.4(2) - 0.1y = 0.7 = 0.06(2) + 0.05(1)$$

$$0.8 - 0.1y = 0.7 = -12 + 0.05$$

$$-0.1y = 0.7 - 0.8 = 0.17 \quad \text{RHS}$$

$$\underline{-0.1y = -0.1} \quad \therefore \text{LS} = \text{RS}$$

$$\underline{-0.1} \quad \underline{-0.1} \quad \therefore (2, 1) \text{ is the solution.}$$

$$y = 1$$

Today's elimination practice:

pp. 40-41 #5a*, 7a, 10, 14a, 19b, 20

***Do a check for 5a only**

Google Classroom: Preview 3 videos before tomorrow's class

Bring headphones to tomorrow's class.