April 26, 2018

19. a)
$$0(\frac{1}{2} \times \frac{1}{2} \times \frac{1}{3} = \frac{1}{3})^{\circ} = 0(\frac{1}{4})^{\circ} - \frac{1}{3}y = \frac{5}{2}$$

 $5x + 4y = 6$
 $3x = 6 - 4y$
 $x = 2 - \frac{4}{3}(3)$
 $x = 2 - \frac{4}{3}(3)$
 $x = 2 + \frac{1}{3}$
 $x = -\frac{1}{3}$
 $x = -\frac{1}{3}$
 $x = -\frac{1}{3}$
 $y = -2x - \frac{1}{5}$
sub $0 = \frac{1}{3} = \frac{1}{3}$
 $x + 4x + 26 = -1 - 26$
 $\frac{1}{7} = -\frac{27}{7}$
Sub back
 $\frac{1}{3} = -\frac{27}{7}$
 $\frac{1}{7} = -\frac{27}{7}$

7.5 Solving Systems by Elimination

* Important: This method is most useful when the coefficient of one of the variables in both equations is the same.

ex. Solve the following system algebraically:





Step 1: Vemore all fractions first -> then decide which variable to elininate Step 2: Solve Step 3: Sub back into Der D

ex. Solve the following system algebraically:

$$\begin{cases}3x-4y=7 \quad (1) \times 5\\5x-6y=8 \quad (2) \times 5\\5x-6y=8 \quad (2) \times 5\\5x-6y=8 \quad (2) \times 5\\5x-78y=24 \quad (2) \times 5\\5x-7$$