

8-17-17 1st Trig

$$\textcircled{1} \quad 2(2x+3) - (2x-5) = 19$$

$$4x + 6 - 2x + 5 = 19$$

$$2x + 11 = 19$$

$$\begin{array}{r} -11 \quad -11 \\ \hline \end{array}$$

$$\frac{2x}{2} = \frac{8}{2}$$

$$x = 4$$

$$\textcircled{2} \quad 4(x-6) - (x+7) = 5$$

$$4x - 24 - x - 7 = 5$$

$$3x - 31 = 5$$

$$\begin{array}{r} +31 \quad +31 \\ \hline \end{array}$$

$$\frac{3x}{3} = \frac{36}{3} \quad \frac{30}{3} + \frac{6}{3}$$

$$x = 12 \quad 10 + 2$$

$$\textcircled{3} \quad 12x - (7x+8) = 29$$

$$12x - 7x - 8 = 29$$

$$5x - 8 = 29$$

$$\begin{array}{r} +8 \quad +8 \\ \hline \end{array}$$

$$\frac{5x}{5} = \frac{37}{5}$$

$$5 \overline{) 37} \quad \begin{array}{r} 7 \\ -35 \\ \hline 2 \end{array}$$



$7 \frac{2}{5}$

$\frac{37}{5}$ ← how many
 $\frac{37}{5}$ ← put in groups of

$\frac{7}{0}$ \leftarrow have 7 people
 \leftarrow put in groups of 0.

↓ | | | | | |

$\frac{2N}{N}$ 8 8 8 = 6

8-17-17 3rd Trig

$$\textcircled{1} \quad 3(2x+5) - (x-7) = 11$$

$$6x + 15 - x + 7 = 11$$

$$\begin{array}{r} 5x + 22 = 11 \\ -22 \quad -22 \\ \hline \end{array}$$

$$\frac{5x}{5} = \frac{-11}{5}$$

$$x = -2\frac{1}{5} \quad (-2.2)$$

$$\begin{array}{r} 2\frac{1}{5} \\ 5 \overline{) 11} \\ \underline{-10} \\ 1 \end{array}$$

$$\frac{11}{5} = \underbrace{\text{||||}}_{2\frac{1}{5}} \underbrace{\text{||||}}_{2\frac{1}{5}} |$$

$\frac{3}{0}$ ← how many I have
← put in groups of

↓ |||

$$\frac{3}{1} = \textcircled{0} \textcircled{0} \textcircled{0} = 6$$

$$\frac{10}{1} = \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} = 10$$

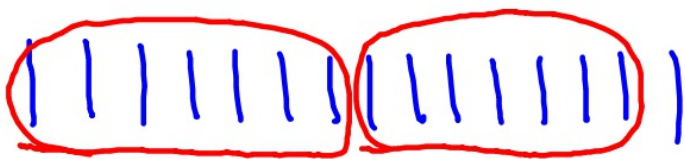
$$\textcircled{2} \quad 6n - (2n + 8) + 3(n + 4) = 19$$

$$\underline{6n} - \underline{2n} - 8 + \underline{3n} + 12 = 19$$

$$7n + 4 = 19$$

$$\begin{array}{r} -4 \quad -4 \\ \hline 7n = 15 \\ \rightarrow \quad \rightarrow \end{array}$$

$$n = 2\frac{1}{7} \quad (2.\overline{142857})$$



8-17-17 4th Try

$$\textcircled{1} \quad 3(5x - 4) - (9x + 1) = 19$$

$$15x - 12 - 9x - 1 = 19$$

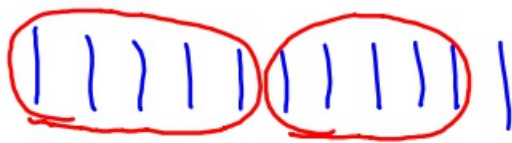
$$\begin{array}{r} 6x - 13 = 19 \\ +13 \quad +13 \\ \hline \end{array}$$

$$\frac{6x}{6} = \frac{32}{6}$$

$$x = 5\frac{1}{3}$$

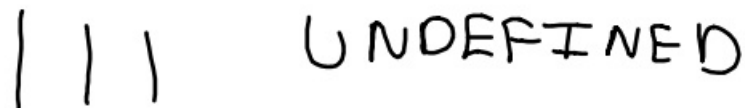
$$6 \sqrt{\begin{array}{r} 5^2/6 \\ 32 \\ -30 \\ \hline 2 \end{array}}$$

$\frac{11}{5} \leftarrow$ have 11 items
 $\frac{11}{5} = \leftarrow$ put in groups of



$$2\frac{1}{5}$$

$\frac{3}{0} \leftarrow$ how many we have
 $\frac{3}{0} \leftarrow$ put in groups of



$$\frac{2}{1} = \textcircled{\textcircled{\textcircled{0}}\textcircled{\textcircled{\textcircled{0}}}} = 6$$

$$\textcircled{2} \quad 3(2x-1) - (2x+4) = 10$$

$$6x - 3 - 2x - 4 = 10$$

$$4x - 7 = 10$$

$$\begin{array}{r} 4x - 7 = 10 \\ +7 \quad +7 \\ \hline \end{array}$$

$$\frac{4x}{4} = \frac{17}{4} = 4\frac{1}{4}$$

