Extended Algebra 1 Name:_____

Systems of Equations Worksheet 20

Use elimination to solve each system of equations. Remember to write your answers as an ordered pair, i.e. (x, y) .

1. $\begin{cases} -10x - 3y = -\frac{44}{5} \\ 10x - 6y = \frac{62}{5} \end{cases}$

2. $\begin{cases} -8x - 10y = -\frac{44}{9} \\ x + 7y = -\frac{52}{9} \end{cases}$

3. $\begin{cases} -9x + 5y = \frac{169}{8} \\ -10x - 2y = \frac{75}{4} \end{cases}$

4. $\begin{cases} 2x - 6y = \frac{272}{35} \\ 10x + 5y = -\frac{78}{7} \end{cases}$

5. $\begin{cases} -10x - 8y = -16 \\ 4x + 10y = \frac{66}{5} \end{cases}$

6. $\begin{cases} -6x - 2y = \frac{63}{10} \\ -8x - 5y = \frac{21}{2} \end{cases}$

7. $\begin{cases} \frac{9}{10}x - \frac{10}{4}y = -\frac{23}{5} \\ \frac{1}{2}x + \frac{3}{8}y = -\frac{19}{24} \end{cases}$

8. $\begin{cases} \frac{1}{3}x + \frac{2}{3}y = \frac{79}{30} \\ -\frac{1}{3}x - 2y = -\frac{239}{30} \end{cases}$

9. $\begin{cases} -\frac{4}{7}x + \frac{1}{3}y = \frac{19}{21} \\ \frac{3}{2}x + y = -\frac{1}{2} \end{cases}$

10. $\begin{cases} -\frac{1}{6}x - \frac{8}{5}y = \frac{437}{270} \\ -5x + 0y = \frac{5}{9} \end{cases}$

11. $\begin{cases} -\frac{2}{5}x - \frac{10}{9}y = \frac{29}{60} \\ -\frac{7}{5}x - 1y = \frac{33}{40} \end{cases}$

12. $\begin{cases} \frac{7}{9}x - \frac{2}{3}y = \frac{34}{45} \\ -\frac{3}{7}x - \frac{1}{2}y = \frac{153}{70} \end{cases}$