Name(s)_____

Solve the system of equations. If a method to solve is given, use that method. If no method is given, you may choose a method to use to solve.

1)   Use substitution: $\begin{cases} x + y = -2 \\ y = -2x \end{cases}$

2)   Use the additon method: $\begin{cases} -3x - 7y = -1 \\ -7x - 4y = 10 \end{cases}$

3) $\begin{cases} 4y = x + 32 \\ 3x + 12y = 0 \end{cases}$

4) $\begin{cases} x + y = 3 \\ x + y = 8 \end{cases}$

5) $\begin{cases} y = 3x - 4 \\ y = 5x - 5 \end{cases}$

6) $\begin{cases} 5x + 3y = -5 \\ -10x - 6y = 10 \end{cases}$

1) $(2, -4)$

2) $(-2, 1)$

3) $(-16, 4)$

4) No solution

5) $\left(\frac{1}{2}, -\frac{5}{2}\right)$

6) infinite solutions