

- One unique solution (times intersect at one point)
- @ No solution " (lines do not intersect)
 (parallel lines)
- 3 Infinitely Many Solutions (IMS) All Real Numbers (TR) (some exact line)

Substitution * if one or both equations (formy

$$3+2x = \frac{1}{3}x+3+10$$

$$3+2x = \frac{1}{3}x+13$$

$$3\cdot 2x = (\frac{1}{3}x+10)\cdot 3$$

$$\begin{array}{c|c}
Gx = 1x + 30 \\
-1x & -1x \\
\hline
5x = 30 \\
\hline
x = 6
\end{array}$$

$$\begin{array}{c|c}
X = 6 \\
\hline
x = 3x + 3 \\
\hline
\end{array}$$

$$\frac{5x = 30}{5}$$

$$y = \frac{1}{3}x + 3$$

$$y = \frac{1}{3}(6) + 3$$

$$(6,5)$$

$$y = 5$$

Elimination (combination * if the equations are aligned so that is one y's are above

$$y$$
's, and #'s are already y 's, and #'s are already y 's, y 's y '

$$\frac{2y}{2} = -\frac{36}{2}$$
 $y = -18$