4.1 systems of equations

2 or more equation with 2 or more variables.

Solution: (1) point that satisfies both equations (both equationsartim)
(2) Intersection of the lines.

Determine if $(3,3)$ is a solution to:

$$
\left\{\begin{array}{l}
x+y=6 \\
2 x-5 y=-2 \\
x+y=6 \\
3+3=6 \\
2(3)-5(3)=-2  \tag{0}\\
6=6
\end{array} \quad \begin{array}{l}
\text { 2 } \\
3-15=-2
\end{array}\right.
$$

$$
\left\{\begin{array}{l}
(1,4) \\
\left\{\begin{array}{l}
x+4 y=9 \\
-2 x+3 y=10
\end{array}\right. \\
1+4(4)=9 \\
1+16=9 \\
17=9 v_{0}
\end{array}\right.
$$

Solve by graphing
Solve: $\left\{\begin{array}{l}-x+y=5 \\ x+2 y=4\end{array}\right.$


HW:

$$
\text { p. } \begin{aligned}
& 244 \\
& 2-40 \mathrm{evn}, \\
& \\
& \text { odds } t . c .
\end{aligned}
$$

