## Assignment

Date $\qquad$

## Solve each system by graphing.

1) $y=x+1$
$y=-\frac{1}{2} x-2$

2) $x-y=-3$
$6 x+y=-4$

3) $\begin{aligned} 5 x-2 y & =-6 \\ 5 x-2 y & =-8\end{aligned}$


Solve each system by substitution.
5) $3 x+y=5$
$8 x+2 y=12$
7) $-2 x-4 y=-8$
$x-3 y=-11$
9) $\begin{aligned} & x-2 y=-9 \\ & -2 x-5 y=0\end{aligned}$
11) $-5 x+8 y=14$ $x+6 y=-18$
6) $2 x-7 y=-12$
$-3 x+y=-1$
8) $-6 x+3 y=-24$
$3 x+y=2$
10) $6 x+2 y=8$
$x-7 y=16$
12) $\begin{gathered}-12 x-3 y=42 \\ 4 x+y=-14\end{gathered}$

## Answers to Assignment (ID: 1)

1) $(-2,-1)$
2) $(-3,-2)$
3) $(-1,2)$
4) No solution
5) $(1,2)$
6) $(1,2)$
7) $(-2,3)$
8) $(2,-4)$
9) $(-5,2)$
10) $(2,-2)$
11) $(-6,-2)$
12) Infinite number of solutions
