Topic 3.2
Solving Systems of Equations Algebraically
Homework
Solve each system of equations by using substitution.

1. $y=3 x+4$
$4 x+2 y=18$
2. $2 x+3 y=2$
$x-3 y=-17$
3. $5 x+6 y=18$
$12 y-4 x=8$

Name: $\qquad$
Date: $\qquad$
4. $3 x-4 y=-27$
5. $x=4 y-10$
$2 x+y=-7$
$5 x+3 y=-4$
6. $\frac{3}{4} x-y=0$
$\frac{y}{3}+\frac{x}{2}=6$

Use elimination to solve the systems of equations.
7. $x-2 y=4$
8. $x+3 y=18$
$-x+2 y=7$
9. $4 x-3 y=22$
$2 x+8 y=30$
10. $\frac{1}{3} x+y=1$
$-4 x+y=1$
11. $y=\frac{x}{2}$
$2 y=x+4$
12. $\begin{aligned} \frac{2}{7} x-\frac{4}{3} y & =16 \\ \frac{4}{7} x+\frac{8}{3} y & =-16\end{aligned}$

