$\qquad$ Date: $\qquad$
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Solving Systems of Equation by Substitution

### 7.2 Practice

Use substitution to solve each system of equations.

1. $y=4 x$
$x+y=5$
2. $y=2 x$
$x+3 y=-14$
3. $y=3 x$ $2 x+y=15$
4. $x=-4 y$
$3 x+2 y=20$
5. $y=x-1$
$x+y=3$
6. $x=y-7$
$x+8 y=2$
7. $y=4 x-1$
$y=2 x-5$
8. $y=3 x+8$
$5 x+2 y=5$
9. $2 x-3 y=21$
$y=3-x$
10. $y=5 x-8$
$4 x+3 y=33$
11. $x+2 y=13$
$3 x-5 y=6$
12. $3 x-y=4$
$2 x-10 y=20$
13. $x+4 y=8$
$2 x-5 y=29$
14. $5 x-2 y=14$ $2 x-y=5$
15. $2 x+5 y=38$
$x-2 y=1$
16. $x-4 y=27$
$3 x+y=-23$
17. $2 x+2 y=7$
$x-2 y=-1$
18. $2 \cdot 5 x+y=-2$ $3 x+2 y=0$

MOVIE TICKETS For exercises 22 and 23, use the following information.
Tickets to a movie cost $\$ 7.25$ for adults and $\$ 5.50$ for students. A group of friends purchased 8 tickets for \$52.75.
22. Write and equation to represent the situation.
23. How many adult tickets and students tickets were purchased?

