**6-2**

*x* – 2*y* = 6

**20.** **MOVIE TICKETS** Tickets to a movie cost $7.25 for adults and $5.50 for students. A group of friends purchased 8 tickets for $52.75.

**a.** Write a system of equations to represent the situation.

**b.** What is the total price of the athletic shoes Kenisha needs to sell to earn the same income from each pay scale?

**c.** Which is the better offer?

**19.** **EMPLOYMENT** Kenisha sells athletic shoes part-time at a department store. She can earn either $500 per month plus a 4% commission on her total sales, or $400 per month plus a 5% commission on total sales.

**a.** Write a system of equations to represent the situation.

2*x* + *y* = 25

**16.** $\frac{1}{3}$*x* – *y* = 3

**15.** $\frac{1}{2}$*x* + 2*y* = 12

*x* – $\frac{1}{2}$*y* = 4

**Lesson 6-2**

**Practice**

***Substitution***

*Glencoe Algebra 1*

Chapter 6

**15**

**b.** How many adult tickets and student tickets were purchased?

**18.** *x* + 3*y* = –4

2*x* + 6*y* = 5

**17.** 4*x* – 5*y* = –7

*y* = 5*x*

*x* + 2.5*y* = 3.5

**14.** 3*x* – 2*y* = 11

**13.** 0.5*x* + 4*y* = –1

**12.** 0.3*x* – 0.2*y* = 0.5

*x* – 2*y* = –5

**11.** *x* + 14*y* = 84

2*x* – 7*y* = –7

**10.** 2*x* – 3*y* = –24

*x* + 6*y* = 18

**9.** *x* – 5*y* = 36

2*x* + *y* = –16

**8.** *x* – 2*y* = 3

4*x* – 8*y* = 12

**7.** *x* + 2*y* = 13

–2*x* – 3*y* = –18

**6.** 3*x* + *y* = 12

*y* = –*x* – 2

**5.** *y* = 2*x* + 6

2*x* – *y* = 2

**4.** *y* = 2*x* – 2

*y* = *x* + 2

**3.** *x* = 2*y* + 7

*x* = *y* + 4

**2.** *x* = 3*y*

3*x* – 5*y* = 12

**1.** *y* = 6*x*

2*x* + 3*y* = –20

**Use substitution to solve each system of equations.**

NAME DATE PERIOD



