NAME _____ DATE _____ PERIOD _____

Practice

Writing Linear Equations

Write an equation in slope-intercept form for each line described.

1. slope $= -4$, y-intercept $= 3$

2. slope $= 5$, passes through $A(-3, 2)$

3. slope $= -4$, passes through $B(3, 8)$

4. slope $= \frac{4}{3}$, passes through $C(-9, 4)$

5. slope $= 1$, passes through $D(-6, 6)$

6. slope $= -1$, passes through $E(3, -3)$

7. slope $= 3$, y-intercept $= \frac{3}{4}$

8. slope $= -2$, y-intercept $= -7$

9. slope $= -1$, passes through $F(-1, 7)$

10. slope $= 0$, passes through $G(3, 2)$

11. ***Aviation*** The number of active certified commercial pilots has been declining since 1980, as shown in the table.

a. Find a linear equation that can be used as a model to predict the number of active certified commercial pilots for any year. Assume a steady rate of decline.

b. Use the model to predict the number of pilots in the year 2003.

Number of Active Certified Pilots	
Year	**Total**
1980	182,097
1985	155,929
1990	149,666
1993	143,014
1994	138,728
1995	133,980
1996	129,187

Source: U. S. Dept. of Transportation