

Name

6-5A

Lesson Master

Questions on SPUR Objectives  
See pages 392–395 for objectives.

SKILLS

Objective B

In 1–4, find an equation of the line given the slope and one point on the line.

1. slope 3, point (6, -4)
2. slope -2, point (-4, 0)
3. slope  $\frac{3}{7}$ , point (-7, -9)
4. slope  $-\frac{1}{5}$ , point (2, 12)

USES

Objective F

5. The Pennyweight Movie Club lets you buy a dozen DVDs for a penny (\$0.01) on the condition that you purchase at least 20 more DVDs for \$17.99 each over the course of the year.

a. Write an ordered pair described by the information.

b. Write the slope described by the information.

c. Find an equation relating  $y$ , the total cost of purchasing the DVDs, to  $x$ , the number of DVDs you purchase.

d. Determine the cost of purchasing the required number of DVDs (12 plus 20 for a total of 32 DVDs).

6. Lancaster High had 2,100 students in 2006 and its enrollment was increasing by 40 students each year. Let  $x$  be the year and  $y$  the number of students. Write an equation relating  $x$  and  $y$ .
- Copyright © Wright Group/McGraw-Hill
- Algebra

239