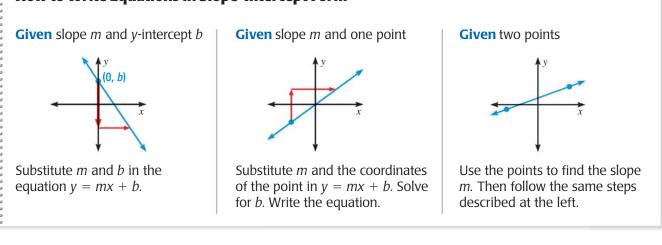
CONCEPT SUMMARY

For Your Notebook

How to Write Equations in Slope-Intercept Form



MODELING REAL-WORLD SITUATIONS You can model a real-world situation that involves a constant rate of change with an equation in slope-intercept form.

EXAMPLE 4) TAKS REASONING: Multi-Step Problem

GYM MEMBERSHIP Your gym membership costs \$33 per month after an initial membership fee. You paid a total of \$228 after 6 months. Write an equation that gives the total cost as a function of the length of your gym membership (in months). Find the total cost after 9 months.

Solution

STEP 1 Identify the rate of change and starting value.

Rate of change, *m*: monthly cost, \$33 per month Starting value, *b*: initial membership fee

STEP 2 Write a verbal model. Then write an equation.

