NAME				DATE	
Module 8	Writing Linea Two Variables	independen			
Lesson 1	son 1 Finding Slope			practice	
Find the clan	a of the line near	ing through the give		- Andrews	
<b>1</b> . (6, -4) and	d (1, 2)	<b>2.</b> (5, –6) and (2, 5)		<b>3.</b> (1, 1) and (2, -4)	
<b>4.</b> (−5, −2) ar	nd (–1, –9)	<b>5</b> . (–1, 0) and (0, 7)		<b>6.</b> (4, 0) and (7, –2)	
<b>7.</b> (−1, −2) ar	nd (3, –2)	<b>8</b> . (4, –4) and (8, 9)		<b>9.</b> (–2, –2) and (1, 10)	
<b>10</b> . (–7, 2) and	d (6, –1)	<b>11.</b> (5, –3) and (5, 0)		<b>12</b> . (–6, 8) and (–2, 2)	
Find the slop	e of a line:				
13. parallel to	<b>13.</b> parallel to the line through $(3, -3)$ and $(1, -2)$ . <b>14.</b>			cular to the line through (4, –1) and	
15. perpendici	perpendicular to the line through (5, $-4$ ) and (4, 2		<b>16.</b> parallel to the line through (1, 6) and (3, 4).		
17. parallel to	parallel to the line through (–2, 3) and (–7, 5).			<b>18.</b> perpendicular to the line through (0, –3) and (4, 3)	
<b>19.</b> parallel to	parallel to the line through $(2, -7)$ and $(-1, 6)$ .		<b>20.</b> perpendicular to the line through (–3, 2) and (7, –2).		

Module 8 Lesson 1

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Independent Practice

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- **1.** A student says the slope of a line passing through the points (-2, 5) and (4, 7) is equal to the ratio  $\frac{7-5}{4-2}$ . Is this correct? Justify your answer.
- **2.** What are some meanings of the word slope?
- **3.** Suppose a line with a slope of 9 indicates the relationship between the altitude (in feet) and the time (in seconds) for an airplane. Explain what this could mean.
- **4.** There is a road sign on a hill picturing a truck sitting on top of a triangle. Below this sign, another sign says, "8% grade next 2 miles." Explain how an 8% grade of a hill is related to the slope of a line.
- **5.** Compare a line with a slope of 5 and a line with a slope of  $\frac{1}{5}$ . Explain how they are alike and how they are different. Which is steeper?

## **Cumulative Review**

## Solve for y.

**1.** 2x + 4y > 2y + 6x

**2.** 7y - 2x < 3y - 8 + 6x

- **3.**  $5y \ge 3x + 6 y + 4x + 3y$
- **5.**  $\frac{5}{2}y + \frac{1}{2}x < 10$
- **7.** y + 5 > 6x + 2

**8.** 19x + 4y - 3x < 0

**6.**  $-4y + x^2 \le x + 4$ 

**4.**  $2y^2 \ge 18x^4$ 

**9.**  $3 + 3x - 5y \ge 16$ 

**10.**  $x + y + 5 \le 4x - 3y + 2x + 2y + x + 3$ 

Module 8 Lesson 1

Independent Practice