## **Chapter 3 Review extras**

1. Suppose f(x) = 4x - 2 and g(x) = -2x + 1. Find the value of  $\frac{f(-3)}{g(-5)}$ 

Write in standard form an equation of the line passing through the given point with the given slope.

2. slope = 
$$\frac{-6}{5}$$
; (1, -3)

## Find an equation for the line:

- 3. through (-4, 1) and perpendicular to  $y = -\frac{5}{3}x + 3$ . 4. through (-1, 5) and parallel to y = 2x 4.
- 5. Given the variables a, b, c, and d. Use these variables to show
  - a) Commutative property of addition
  - b) Associative property of addition
  - c) Distributive property

## Chapter 3 Review extras Answer Section

## SHORT ANSWER

1. ANS:  $-1\frac{3}{11}$ DIF: L3 **REF: 2-1 Relations and Functions** PTS: 1 OBJ: 2-1.2 Identifying Functions TOP: 2-1 Example 6 KEY: function notation 2. ANS:  $\frac{6}{5}x + y = -\frac{9}{5}$ PTS: 1 DIF: L3 REF: 2-2 Linear Equations OBJ: 2-2.2 Writing Equations of Lines TOP: 2-2 Example 4 KEY: point-slope form | standard form of linear equation 3. ANS:  $y = \frac{3}{5}x + \frac{17}{5}$ PTS: 1 DIF: L2 REF: 2-2 Linear Equations OBJ: 2-2.2 Writing Equations of Lines TOP: 2-2 Example 7 KEY: slope | perpendicular | equation of a line 4. ANS: y = 2x + 7PTS: 1 DIF: L2 **REF: 2-2 Linear Equations** OBJ: 2-2.2 Writing Equations of Lines TOP: 2-2 Example 7 KEY: slope | equation of a line