

Practice 10.6

Name _____

Determine whether the given point lies on the line.

1) $(-3, 8)$; $y - 11 = x$

2) $(0, 4)$; $y = \frac{1}{2}(x + 6) + 3$

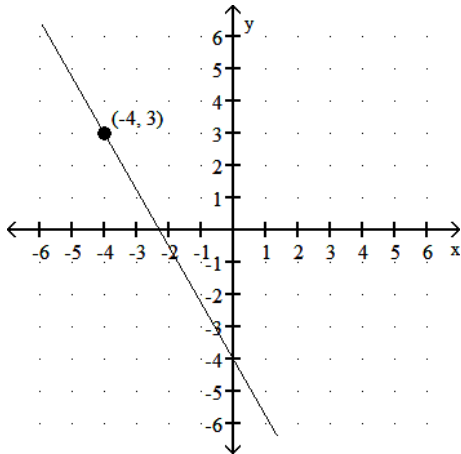
Write the point-slope form in slope-intercept form.

4) $y - 6 = -9(x + 5)$

5) $y + 2 = \frac{3}{5}(x - 5)$

Use the labeled point to write the point-slope form for the line.

3)



Find the slope-intercept form for the line satisfying the conditions.

6) Slope - 6, passing through $(4, 4)$

7) Passing through $(-2, -6)$ and $(8, 1)$

8) x-intercept 7, y-intercept -8

- 9) Find the slope-intercept form for the line satisfying the conditions.

Parallel to $y = 2x - 9$, passing through $(1, -5)$

Solve the problem.

11)

A gas station sells 4820 gallons of regular unleaded gasoline on a day when they charge \$4.35 per gallon, whereas they sell 3953 gallons on a day that they charge \$4.40 per gallon. Find a linear function that expresses gallons sold as a function of price.

- 10) Perpendicular to $y = \frac{1}{3}x + 19$, passing through the point $(-5, -6)$

Answer Key

Testname: WKS_10.6

1) Yes

2) No

$$3) y - 3 = -\frac{7}{4}(x + 4)$$

$$4) y = -9x - 39$$

$$5) y = \frac{3}{5}x - 5$$

$$6) y = -6x + 28$$

$$7) y = \frac{7}{10}x - \frac{23}{5}$$

$$8) y = \frac{8}{7}x - 8$$

$$9) y = 2x - 7$$

$$10) y = -3x - 21$$

$$11) y = -17,340x + 80,249$$