Check Your Understanding
Equations of Lines: Find Equation Given Constraints

Answer these problems, then check your answers using the key on the next page.

#1) Write the equation of a line in slope-intercept form containing the point $(-3, 4)$ and perpendicular to the line $3x - 6y = 8$

#2) Write the equation of a line in standard form which passes through the points $(-1, -5)$ and $(-2, 6)$

#3) Write the equation of a line which passes through the points $(2, 7)$ and $(2, -3)$

Answers:

#1) $y = -2x - 2$

#2) $11x + y = -16$

#3) $x = 2$