Example 2: Use the given conditions to write an equation for the line in point-slope form and in slope-intercept form.

a. Passing through (3, -4) and perpendicular to the line whose equation is $y = \frac{1}{2}x + 4$

b. Passing through (-3, 2) and parallel to the line whose equation is $3x - 8y - 7 = 0$

c. Passing through (1, -1) and perpendicular to the line whose equation is $x - 4y - 5 = 0$