

1. Each of the following describes a line. Find the slope-intercept form of the line with each of the following properties:
 - (a) The line has slope 3 and passes through the point $(-2, 4)$.
 - (b) The line passes through the points $(5, 2)$ and $(-3, 4)$.
2. The cost C , in dollars, of renting a moving truck for a day is modeled by the function $C(x) = 0.25x + 35$, where x is the number of miles driven.
 - (a) What is the cost if you drive $x = 40$ miles?
 - (b) If the cost of renting the moving truck is \$80, how many miles did you drive?
 - (c) Suppose that you want the cost to be no more than \$100. What is the maximum number of miles that you can drive?
 - (d) What is the implied domain of C ?
3. Plot each of the lines on the following axes. You should use knowledge of the y -intercept and the slope for this. Do not just plot points. Label each line (a)-(d).
 - (a) $y = 2x - 3$
 - (b) $y = -\frac{2}{3}x + 4$
 - (c) $y = 4$
 - (d) $x = -1$