Section 2.2

1) This example will help you do exercises 1-8 on p. 71. Find the slope of the line passing through (-6, -3) and (-5, 10).

2) This example will help you do exercises 27-32 on p. 72. Sketch the graph of \(-2x + 3y = 5\) and label its intercepts.

3) This example will help you do exercises 22 on p. 71. Graph and find the slope:
   a) \(x = -1\)
   b) \(y - 3 = 0\)

4) This example will help you do exercises 43-54 on pp. 72-3. Find the equation of the line that passes through (-2, 3) and (-1, -5). Write your final answer in the form \(y = mx + b\).

5) This example will help you do exercises 55-64 on p. 73. Find the equation of the line perpendicular to \(3x + 2y = 7\) and passing through the point (0, 6). Write your final answer in the form \(y = mx + b\).

6) This example will help you do exercises 72-75 on pp. 73-4. Using data from the National Center for Health Statistics (Source: World Almanac and Book of Facts, 1996), the life expectancy of an American can be approximated by the equation \(y = .101x + 74.45\), where \(y\) is in years and \(x\) represents the year of birth with \(x = 0\) being 1982.
   a) In what year will the life expectancy of a U.S. newborn reach 77 years?
   b) What does the slope of the line tell us?