1. \[ y = \frac{1}{2} x - 3 \quad 2x - y = 3 \quad x = \frac{1}{2} y - 3 \quad x - 2y = 3 \]
\[ x = 2y - 3 \quad 4x - 2y = 6 \quad y - 1 = \frac{1}{2}(x - 8) \quad y + 1 = \frac{1}{2}(x - 4) \]

Classify the equations (point-slope, slope-intercept, general form).
Find the line slope in each case.
Which equations describe the same line?
Which equations describe parallel lines?
Plot the lines on the same set of axes.

2. Consider the line given by the equation \( x/2 + y/3 = 1 \). Find the slope. Find the intercepts.

3. Find the line parallel to \( y = 2x + 3 \) and passing through \((10, 10)\).

4. Let \( P \) have coordinates \((100, 99)\) and \( Q \) have coordinates \((98, 99)\). Suggest an equation of a line through the origin that passes above \( P \) and below \( Q \). Explain your answer.

5. The product of slopes of two lines passing through the origin is \(1\). What can you say about the lines?

6. The product of slopes of the two lines is \(-1\). What can you say about the lines?