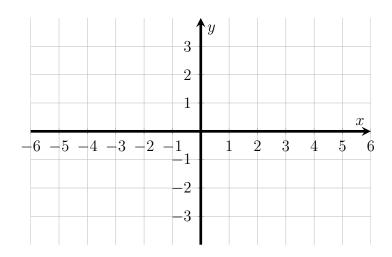
1. (a) Find an equation of the line through the points (-2,1) and (4,3).

(b) Find an equation of the line with slope 1 that goes through the point (2,3).

(c) What is the point of intersection of the lines from parts (a) and (b)? Sketch both lines on the axes below.



2. Solve the following equations:

(a)
$$3 + 2\log_7(x^2 - 3x + 9) = 5$$

(b)
$$2 + 5^{3x-6} = 127$$

- 3. Consider the function $f(x) = \frac{3x+2}{4x+3}$.
 - (a) What is the domain of f?
 - (b) Find $f^{-1}(x)$ (i.e., solve $y = \frac{3x+2}{4x+3}$ for x and switch the roles of y and x). What is the domain of f^{-1} ?