1. Find the slope of the line through the points \((-1, 2)\) and \((3, 4)\).

   Answer. \(1/2\)

2. Give an equation for a line parallel to \(y = 3x - 1\) through the point \((0, 1)\)

   Answer. \(y = 3x + 1\)

3. Give an equation for a line perpendicular to \(y = 3x - 1\) through the point \((1, 1)\) (note it is a different point)

   Answer.
   
   \[y - 1 = \frac{1}{3}(x - 1)\]

4. Find the domain of \(f(x) = \frac{x^2 - 3x + 2}{9 - x}\)

   Answer. \((-\infty, 9) \cup (9, \infty)\) OR \(\{x \in \mathbb{R}|x \neq 9\}\)

5. Using \(f(x) = \frac{x^2 - 3x + 2}{9 - x}\), find \(f(x + h)\)

   Answer.
   
   \[\frac{(x + h)^2 - 3(x + h) + 2}{9 - (x + h)}\]

6. If \(g(1) = 1\), \(g(2) = 1\) and \(g(3) = 2\), is \(g\) a function?

   Answer. Yes

7. Given \(p(x) = 3x^2 + 1\) and \(q(x) = 1/x\), find \((q \circ p)(x)\)

   Answer.
   
   \[\frac{1}{3x^2 + 1}\]