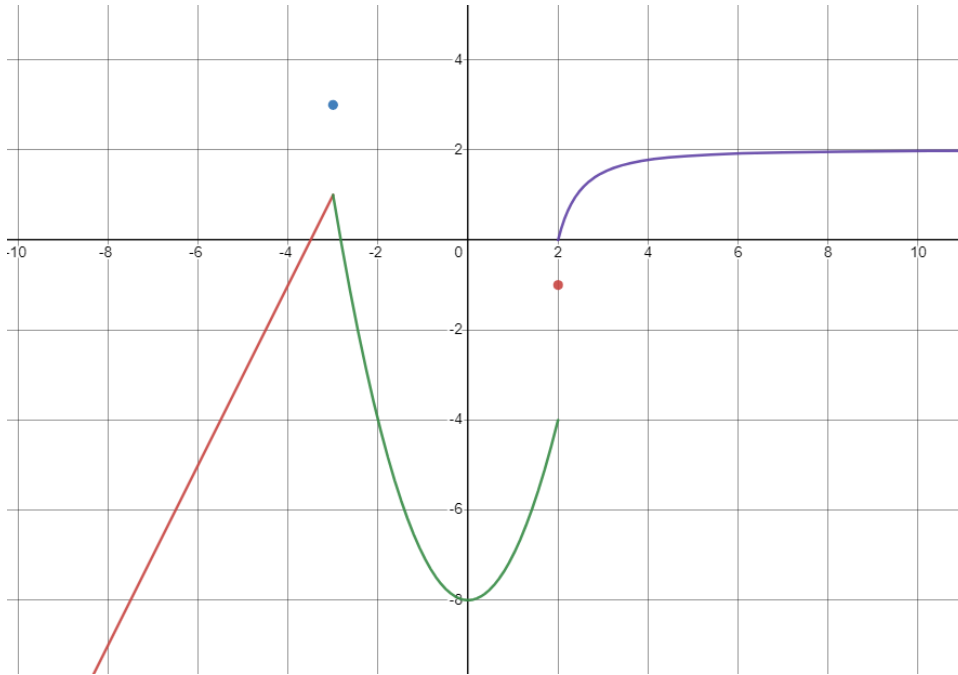Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [6 points] Compute and simplify the difference quotient of $f(x) = \sqrt{7x + 1}$ at $x = 5$.

2. [4 points] Using the graph of the function, find the following values.

$$f(-3) \quad = \qquad\qquad\qquad\qquad\qquad f(2) \quad =$$

$$\lim_{x \to -3^-} f(x) \quad = \qquad\qquad\qquad\qquad \lim_{x \to 2^-} f(x) \quad =$$

$$\lim_{x \to -3^+} f(x) \quad = \qquad\qquad\qquad\qquad \lim_{x \to 2^+} f(x) \quad =$$

$$\lim_{x \to -3} f(x) \quad = \qquad\qquad\qquad\qquad \lim_{x \to 2} f(x) \quad =$$