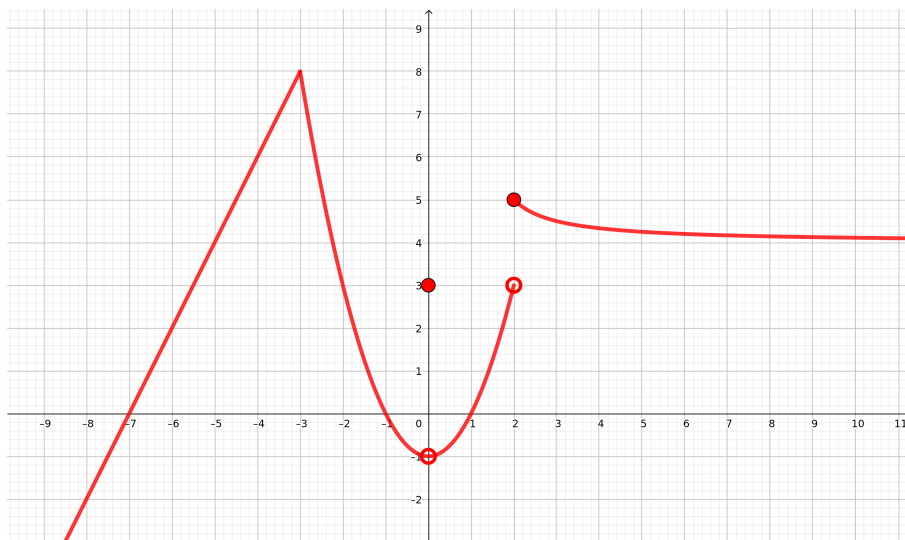


## 5th Assignment - till 7. 11. 23:59

1. Find  $\lim_{x \rightarrow 2^-} f(x)$ ,  $\lim_{x \rightarrow 2^+} f(x)$ ,  $\lim_{x \rightarrow 0} f(x)$ ,  $\lim_{x \rightarrow \infty} f(x)$



2. Consider functions  $f$  (the green one) and  $g$  (the red one). Find

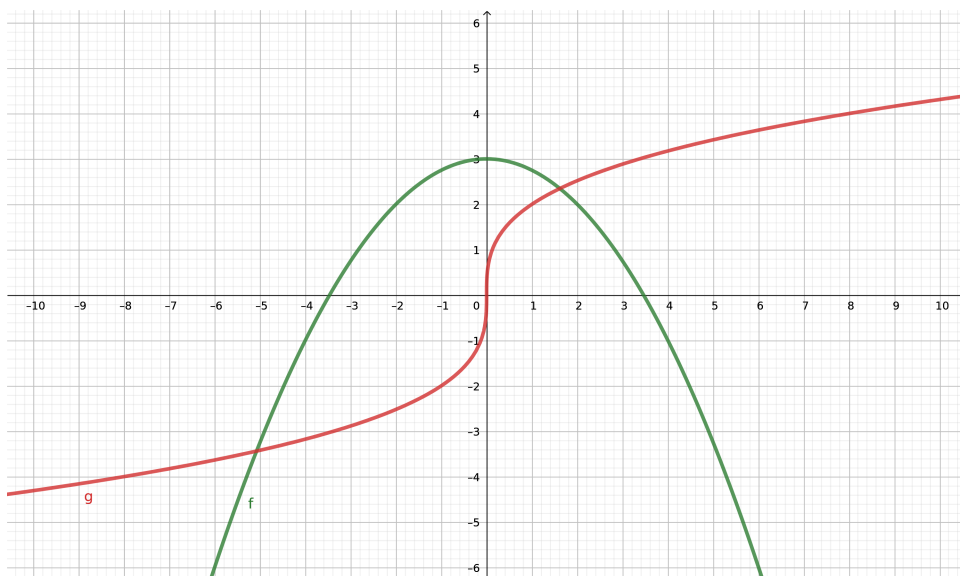
(a)  $g(f(4))$

(c)  $x$ , such that  $g(f(x)) = 0$

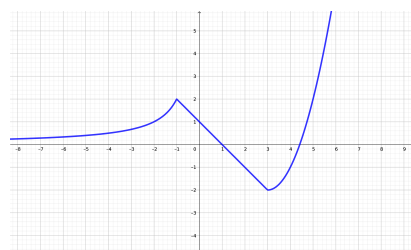
(b)  $f(g(8))$

(d)  $x$ , such that  $f(g(x)) = 2$

Are Your answers unambiguous?



3. Let us consider the function  $f(x)$ .



Match

(a)  $f(|x|)$

(c)  $-f(|x|)$

(b)  $|f(x)|$

(d)  $f(-|x|)$

