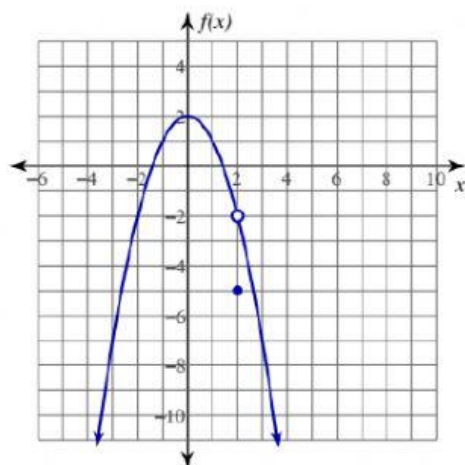


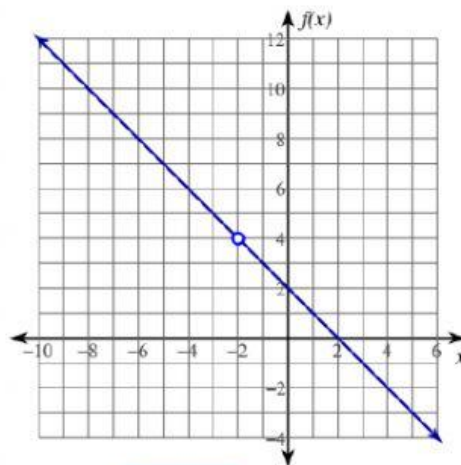
Предел функции

Вычислите пределы:

$$1) \lim_{x \rightarrow 2} f(x), f(x) = \begin{cases} -x^2 + 2, & x \neq 2 \\ -5, & x = 2 \end{cases}$$



$$2) \lim_{x \rightarrow -2} -\frac{x^2 - 4}{x + 2}$$



$$3) \lim_{x \rightarrow 3} \frac{x^2 - 7x + 12}{x - 3}$$

$$4) \lim_{x \rightarrow -3} \frac{x + 3}{x^2 + 2x - 3}$$

$$5) \lim_{x \rightarrow 0} f(x), f(x) = \begin{cases} x + 1, & x \neq 0 \\ 2, & x = 0 \end{cases}$$

$$6) \lim_{x \rightarrow 3} f(x), f(x) = \begin{cases} 2 + \frac{x}{2}, & x \neq 3 \\ 2, & x = 3 \end{cases}$$

$$7) \lim_{x \rightarrow 1} -\frac{x^2 - 1}{x - 1}$$

$$8) \lim_{x \rightarrow 5} -\frac{x^2 - 5x}{x - 5}$$

$$9) \lim_{x \rightarrow 2} -\frac{x^2 - x - 2}{x - 2}$$

$$10) \lim_{x \rightarrow -5} \frac{x^2 + 3x - 10}{x + 5}$$

$$11) \lim_{x \rightarrow 0} \frac{\frac{1}{-4+x} + \frac{1}{4}}{x}$$

$$12) \lim_{x \rightarrow -3} \frac{x}{\frac{1}{3+x} - \frac{1}{3}}$$

$$13) \lim_{x \rightarrow 5} \frac{x-5}{\sqrt{x+4}-3}$$

$$14) \lim_{x \rightarrow 3} \frac{\sqrt{x+6}-3}{x-3}$$