

5.8 1)

$$\alpha) \lim_{x \rightarrow 1} f(x) = \lim_{x \rightarrow 1} (2x + 1) = \boxed{3}$$

$$\beta) \lim_{x \rightarrow 4} f(x) = \lim_{x \rightarrow 4} (3x - 2) = \boxed{10}$$

$$\gamma) \lim_{x \rightarrow 3^-} f(x) = \lim_{x \rightarrow 3^-} (2x + 1) = \boxed{7}$$

$$\delta) \lim_{x \rightarrow 3^+} f(x) = \lim_{x \rightarrow 3^+} (3x - 2) = \boxed{7}$$

$$\varepsilon) \lim_{x \rightarrow 3} f(x) \stackrel{\beta), \gamma)}{=} \boxed{7}$$

$$\sigma\tau) \lim_{x \rightarrow -3} f(x) = \lim_{x \rightarrow -3} (2x + 1) = \boxed{-5}$$

5.8 2)

$$\alpha) \lim_{x \rightarrow 5} f(x) = \lim_{x \rightarrow 5} (x + 5) = \boxed{10}$$

$$\beta) \lim_{x \rightarrow -3} f(x) = \lim_{x \rightarrow -3} (4x + 1) = \boxed{-11}$$

$$\gamma) \lim_{x \rightarrow -1} f(x) = \lim_{x \rightarrow -1} (4x - 1) = \boxed{-5} \quad \delta) \lim_{x \rightarrow -1^+} f(x) = \lim_{x \rightarrow -1^+} (x + 5) = \boxed{-4}$$

$$\varepsilon) \lim_{x \rightarrow -1} f(x) \stackrel{\beta), \gamma)}{=} \text{δεν υπάρχει}$$

$$\sigma\tau) \lim_{x \rightarrow -2} f(x) = (4x + 1) = \boxed{-7}$$

5.8 3)

$$\alpha) \lim_{x \rightarrow -2} f(x) = \lim_{x \rightarrow -2} (x + 5) = \boxed{3}$$

$$\beta) \lim_{x \rightarrow 2^-} f(x) = \lim_{x \rightarrow 2^-} (x + 5) = \boxed{7}$$

$$\gamma) \lim_{x \rightarrow 2^+} f(x) = \lim_{x \rightarrow 2^+} (2x + 3) = \boxed{7}$$

$$\delta) \lim_{x \rightarrow 2} f(x) \stackrel{\beta), \gamma)}{=} \boxed{7}$$

$$\varepsilon) \lim_{x \rightarrow 5^-} f(x) = \lim_{x \rightarrow 5^-} (2x + 3) = \boxed{13} \quad \sigma\tau) \lim_{x \rightarrow 5^+} f(x) = \lim_{x \rightarrow 5^+} (x + 6) = \boxed{11}$$

$$\zeta) \lim_{x \rightarrow 5} f(x) \stackrel{\varepsilon) \sigma\tau)}{=} \text{δεν υπάρχει}$$

$$\eta) \lim_{x \rightarrow 8} f(x) = \lim_{x \rightarrow 8} (x - 6) = \boxed{2}$$

$$\theta) \lim_{x \rightarrow 4} f(x) = \lim_{x \rightarrow 4} (2x + 3) = \boxed{11}$$

$$\iota) \lim_{x \rightarrow 6} f(x) = \lim_{x \rightarrow 6} (x - 6) = \boxed{0}$$