01 - limites por definición.

Lim fex) = 1 2-> 4870 = 3570: 02/x-x. | 23-> | fex)-1/48

1. $\lim_{x\to 3} (2x-1) = 5$

enturies:

12x-1-5/28

12x-6 | 2 E

12(x-3) LE

7 | x - 3 | 2 8 / 1/2

,

1x-3 | 2 E/2

Por la tento:

02/8-3/28

=> |4-3| 2 / (2)

2/4-3/22

2(x-3) | 22 f

12(%-3)1224

12x-6/226/2

=> |2x-1-6| 6

1 (2x-1)-5 | < E

=> | f(x) - 2 | 2 E

i. In 2x-1 = 5 x-33

2.
$$\lim_{x \to 2} (x^2 + 3x + 2) = 12$$

$$E > 0$$
, $d > 0$ $0 \le 1 \le -2 \le 2 \implies |(x^2 + 3x + 2) - 12| \le E$

$$|(x^2 + 3x + 2 - 12)| \le E$$

$$|(x^2 + 3x - 10)| \le E$$

$$(1,3)$$
 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

8 1 x - 2 1 4 & / (1/8)