. A function fex) is continious at x = a

 $\frac{1}{1} \int_{X \to a} e^{ix} f(x) = f(a)$ $\frac{1}{1} \int_{X \to a} e^{ix} f(x) = f(a)$

$$f(x) = \begin{cases} \sqrt{1+kx} - \sqrt{1-kx} & -1 \leqslant x \leqslant 0 \\ \frac{2x+1}{x-1} & 0 \leqslant x \leqslant 1 \end{cases}$$

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$$f(x) = -2 \qquad \qquad \lim_{x \to 0^{-}} f(x)$$

$$V_{1+kx} = V_{1-kx}$$

$$x = 0 - h$$

$$V_{1-kh} = V_{1+kh}$$

$$V_{1-kh} + V_{1+kh}$$

$$V_{1-kh} + V_{1+kh}$$

$$V_{1-kh} + V_{1+kh}$$

$$V_{1-kh} + V_{1-kh}$$

LHL 2K - +co)

$$\int K = -1$$

$$f(x) = \begin{cases} 3qx + b \\ 11 \\ 8qx - 2b \end{cases}$$

$$x > 1$$

$$x = 1$$

$$x \rightarrow 1$$

$$Sa - 2b$$

x < 1

given: - fex) is cont of x=1, then a,b=?

$$Sa - 2b = 11$$

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$$Sa - 2b = 3a + b = 11$$

$$Sa - 2b = 3a + b = 11$$

$$a, b ?$$

f and g are cond f at x = ais also conten fer + g(r) fgx1. g(x)

9 (a) £ 0

Composito cont 1 g(x) is con at x = Co fex) is contin at (9(a)