

$$\lim_{x \rightarrow 4} \frac{2x - 8}{2 \cdot \sqrt{5x+5} - 25x} = \frac{0}{0} \rightarrow (x-4)$$

$$\frac{2 \cdot (x-4)}{2 \cdot \sqrt{5x+5} - 25x} \cdot \frac{2 \sqrt{5x+5} + 25x}{2 \sqrt{5x+5} + 25x}$$

(a - b) \cdot (a + b)

$$\frac{2 \cdot (x-4) \cdot [2\sqrt{5x+5} + 25x]}{4 \cdot (5x+5) - 25/4 x^2}$$

$$20 \cdot \frac{25/4}{25/5}$$

$$-\frac{25}{4}x^2 + 20x + 20$$

$$-\frac{25}{4} \left(x^2 - \frac{16}{5}x - \frac{16}{5} \right)$$

$$-\frac{25}{4} (x-4) \left(x + \frac{4}{5} \right)$$

$$\frac{2 \cdot [2\sqrt{5x+5} + \frac{5}{2}x]}{-\frac{25}{4} \cdot (x + \frac{4}{5})}$$

$$\frac{40}{-\frac{25}{4} \cdot \frac{24}{5}} = \frac{40}{-30}$$

$$\left(-\frac{4}{3} \right)$$

$$\sqrt{\frac{5}{2}x} \downarrow \cdot 2$$

$$\left(\frac{5}{2}x\right)^2 \downarrow \cdot 2$$