

$$(2) \lim_{x \rightarrow 1} \frac{(2x-3)(\sqrt{x}-1)}{2x^2+x-3}$$

Solⁿ: a) ~~-1/10~~ b) 1/10
c) 0 d) 1

$$\lim_{x \rightarrow 1} \frac{(2x-3)(\sqrt{x}-1)(\sqrt{x}+1)}{(x-1)(2x+3)(\sqrt{x}+1)}$$

$$= \lim_{x \rightarrow 1} \frac{(2x-3)(\cancel{x-1})}{(\cancel{x-1})(2x+3)(\sqrt{x}+1)}$$

$$= \frac{(2-3)}{(2+3)(1+1)}$$

$$= \frac{-1}{(5) \cdot (2)}$$

$$= \frac{-1}{10}$$