



$$f(x) = \sqrt{x} + \sqrt{2-3x}$$

$$D_f = \left[0, \frac{2}{3}\right]$$

$$f(0) = \sqrt{2}$$

$$f\left(\frac{2}{3}\right) = \sqrt{\frac{2}{3}}$$

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

$$= 0 \text{ ha } x = \frac{1}{6}$$

$$> 0 \text{ ha } 0 < x < \frac{1}{6}$$

$$< 0 \text{ ha } \frac{1}{6} < x < \frac{2}{3}$$

$$\frac{\partial}{\partial x} \left(\frac{1}{2\sqrt{x}} - \frac{3}{2\sqrt{2-3x}} \right) = \frac{\sqrt{(2-3x)^3} + 9\sqrt{x^3}}{-4\sqrt{(2-3x)^3 x^3}} < 0$$

$$R_j = \left[\sqrt{\frac{2}{3}}, 2\sqrt{\frac{2}{3}} \right]$$