



$$(\sqrt{x})' = \frac{1}{2\sqrt{x}}$$

$$f(10) - f(a) = \frac{1}{2\sqrt{c}} \cdot (10 - a) \dots \text{平均値}$$

$$a < c < 10$$

$$f(10) = f(a) + \frac{1}{2\sqrt{c}} \cdot 1$$

$$f(10) = 3 + \frac{1}{2\sqrt{c}}$$

$a < c < 10$  のとき

$$3 + \frac{1}{2\sqrt{9}} > \sqrt{10} > 3 + \frac{1}{2\sqrt{10}}$$

$$3 + \frac{1}{6} = \frac{19}{6} > \sqrt{10} > 3 + \frac{1}{2\sqrt{10}}$$

↑  
×48

$$\frac{19}{6} > \sqrt{10} \quad \text{↑} \times 6$$

$$\frac{6}{19} < \frac{1}{\sqrt{10}}$$

$$3 + \frac{1}{2\sqrt{10}} > 3 + \frac{6^3}{2 \cdot 19} = 3.15 \dots$$

$$\frac{19}{6} > \sqrt{10} > \frac{60}{19}$$

↑

$$\frac{19}{6} \times \frac{6}{19} = 10$$

↑  
×48