

$$g(x) = x - \frac{f(x)}{f'(x)}$$

$$g'(x) = 1 - \frac{\cancel{f'(x)}f''(x) - f(x)\cancel{f''(x)}}{[\cancel{f'(x)}]^2}$$

$$= \cancel{1} - \cancel{1} + \frac{f(x)f''(x)}{(\quad)^2}$$

$$g'(x) = \frac{\cancel{f(x)}f''(x)}{(\quad)^2} \xrightarrow{0}$$

$$= 0$$