$f(x) = x^3 - 3x - 2$

$$x_{k+1} = x_k - f(x_k)\frac{x_k - x_{k-1}}{f(x_k) - f(x_{k-1})}$$

k	x_k	$f(x_k)$
0	1	-4
1	4	50
2	1,222	-3,841

$\therefore x_2 = x_1 - f(x_1)\frac{x_1 - x_0}{f(x_1) - f(x_0)}$

$= 4 - 50 \times \frac{3}{54}$

$\approx 1,222$

$\therefore x_2 = 1,222$