

Use Newton's Method with the function  $f(x) = x^2 - 2$  and initial value  $x_0 = 3$  to calculate  $x_1, x_2, x_3$ .

$$x_1 = \text{[input box]}$$

$$x_2 = \text{[input box]}$$

$$x_3 = \text{[input box]}$$

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$$x_1 = \boxed{11/6 \approx 1.833}$$

$$x_2 = \boxed{193/132 \approx 1.462}$$

$$x_3 = \boxed{72097/50952 \approx 1.415}$$