

TOPIC

Mathematics – Section I – Question 3

QUESTION

The Newton-Raphson method formula for finding the square root of a real number R from the equation $x^2 = R$ is

(A) $x_{i+1} = \frac{x_i}{2}$

(B) $x_{i+1} = \frac{3x_i}{2}$

(C) $x_{i+1} = \frac{1}{2} \left(x_i + \frac{R}{x_i} \right)$

(D) $x_{i+1} = \frac{1}{2} \left(3x_i - \frac{R}{x_i} \right)$

CONTRIBUTOR

Autar Kaw