

$$f(x) = \left(x - \frac{2}{x^2}\right)^9$$

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2 Introduction

$$\sqrt{\frac{-1 + \sqrt{1 + \frac{1}{4}(x^2 - 2^n)^2}}{1 + \sqrt{1 + \frac{1}{4}(x^2 - 2^n)^2}}} = \frac{1 - 2^n}{1 + 2^n} \quad (1)$$