

QUESTION 7



EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL
SENSE CERTIFICATE

GRADE 12

MATHEMATICS PAPER 1
SEPTEMBER 2023

GRADE 12
TIME: 2 hours

QUESTION 7

7.1 Given $f(x) = -2x^2 + 1$

Determine $f'(x)$ from first principles.

(5)

7.2 Determine:

7.2.1 $f'(x)$ if $f(x) = \frac{1}{2}x^2 - \frac{3}{2}$

(3)

7.2.2 $D_x \left[\frac{-2x^2 + \sqrt{2}}{x^2} \right]$

(3)

(11)

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