

## QUESTION 7



EDUCATION  
REPUBLIC OF SOUTH AFRICA

NATIONAL  
SENior 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)

## MATHEMATICS PAPER 1 DIFFERENTIATION

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**Peipei Pang**



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