

DIFFERENTIATION & FUNCTIONS (Q 6, 7 & 8, PAPER 1)

LESSON NO. 2: DIFFERENTIATING FROM FIRST PRINCIPLES

2007

8 (b) Differentiate $x^2 - 3x$ with respect to x from first principles.

2005

6 (b) Differentiate $3x - x^2$ with respect to x from first principles.

2004

8 (b) Differentiate $x^2 + 3x$ with respect to x from first principles.

2003

6 (b) Differentiate $x^2 - 2x$ with respect to x from first principles.

2001

8 (b) Differentiate $3x^2 - x$ from first principles with respect to x .

2000

6 (a) Differentiate $7x + 3$ from first principles with respect to x .

1999

6 (b) Differentiate from first principles

$x^2 + 5x$
with respect to x .

1997

6 (b) Differentiate from first principles

$3x^2 - 2$
with respect to x .

1996

7 (a) Differentiate from first principles

$3x - 7$
with respect to x .

ANSWERS

2007 8 (b) $2x - 3$

2005 6 (b) $3 - 2x$

2004 8 (b) $2x + 3$

2003 8 (b) $2x - 2$

2001 8 (b) $6x - 1$

2000 6 (a) 7

1999 6 (b) $2x + 5$

1997 6 (b) $6x$

1996 7 (a) 3