

## SECTION A

### QUESTION 1

1.1 Solve for  $x$

1.1.1  $x = \frac{4}{x} + 3$

1.1.2  $2x^2 = -x + 5$  (Are the roots real or Unreal)

1.1.3  $x^2 - x + 6 < 2(x + 2)$

1.2 If  $f(x) = \frac{\sqrt{x+2}}{3-3x^2}$ , for which values of  $x$  is

1.2.2  $f(x)$  non real.

1.2.3  $f(x)$  undefined

1.2.4  $f(x) > 0$

1.3 Simplify:

$$\frac{2^x - 2^{-x}}{4^x - 1}$$

### QUESTION 2

2.1 Boitumelo invests an amount of R28 000 for a period of 7 years. For the first two years the interest was 12% p.a. compounded semi-annually. The interest was then changed to 10% p.a. compounded quarterly. Determine the value of the investment after the 7-year period. (3)

2.2 Convert an interest rate of 10% p.a. compounded quarterly to an annual effective interest rate. (3)

2.3 A lawnmower was traded in for R236 after 10 years. The depreciation was calculated at 9,2% p.a. on a straight-line basis. Determine the cost of the lawnmower 10 years ago. (4)

[10]

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