

Grade 12 Mathematics: Quantitative Paper 1

Maximum: 100

Time: 3 hours

QUESTION 5

- 5.1 Write down:
- 5.1.1 the x -intercept of $y = 2x^2 - 5x + 3$ (1)
- 5.1.2 the x -intercept of $y = 2x^2 - 5x + 3$ (1)
- 5.1.3 the x -intercept of $y = 2x^2 - 5x + 3$ (1)
- 5.2 Determine the value of the following expression: $\frac{2^5 - 2^3}{2^2}$ (2)
- 5.3 The area of a square is given by $A = \frac{1}{2}(x+1)(x+2)$. (1)
- 5.4 Determine the 11th term of the following sequence: $40, \frac{8}{11}, \frac{16}{11}, \frac{24}{11}, \dots$ (2)
- 5.5 If inflation is expressed as $x\%$, the price increase for the year 2016 was 10 percent. During which year will prices be double what they are today? (1)
- 5.6 Determine $\frac{dy}{dx}$ for the relation $f(x, y) = x^2 + y^2 = 40$ when $x = 2$. (1)
- 5.7 Given $f(x) = \frac{1}{x+2}$.
- 5.7.1 Determine the equation of the vertical asymptote of $f(x)$. (1)
- 5.7.2 Determine the x -intercept of $f(x)$. (1)
- 5.7.3 Determine x if $f(x) = 4$. (2)
- 5.7.4 Determine the equation of one of the lines of symmetry of $f(x)$. (2)
- 5.8 The inverse of a function is $f^{-1}(x) = 2x + 4$. What is the function $f(x)$? (1)
- 5.9 Which of the following functions describe increases over the interval $(0, 10)$?
- 5.9.1 $y = \log_2 x$ 5.9.2 $y = 10^x$ 5.9.3 $y = \frac{100}{x}$ (1)
- 5.10 Determine a function $f(x)$ such that $f'(x) = 6x^2$. (1)
- 5.11 A car travelled for 1 hour. The average speed for the first 15 minutes was 60 km/h and for the remaining 45 minutes the average speed was 80 km/h. How far did the car travel? (2)

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