

GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 - 5x - 6 = 0$ (2)
- 1.1.2 $(2x - 3)(x + 1) = 9$ (3)
- 1.1.3 $x - \sqrt{x - 1} = 3$ (4)
- 1.1.4 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 5x - 6 > 0$ (3)
- 1.3.2 $-3(x + 1)(x - 2) < 0$ (3)
- (P1)**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 2.2.1 For which values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)
- 2.3 Solve x if: $\frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{\sqrt{2^4 \cdot 3^{2x+1}}}{2^{2x+1}}$$

(4)

- 2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$. (5)

(P4)

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2$, $x + 1$, $2x + 5$

- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_4 . (2)

- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$

- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.1 Determine T_n , the general term of the pattern. (3)
- 3.2.3 Given that $T_n = -4n^2 + 56n - 180$, determine the largest possible numerical value for T_n . (4)

- 3.3 Given $T_n = 13 - 3n$:

- 3.3.1 Which term in the series would be equal to -17 ? (3)
- 3.3.2 Determine the numerical value for the 11th term. (2)

- 3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3
		
		
		

James says if he increases the pattern number by one, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

Who is correct between James and John? Prove your answer.

(5)

(P4)

QUESTION 4

Given: $f(x) = \frac{x^2}{x+1} - 1$ and $g(x) = -x^2$. The point $(1, -3)$ lies on g .

- 4.1 Determine the value of x . (2)
- 4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)
- 4.3 Determine the axis of symmetry of f that has a positive gradient. (2)

(P1)

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web may 11 2023 table 57 referenced by rule 16 210 6 and table 5a provides allowable ampacities for class 2 copper conductors based on the size of the conductor and whether it is a single conductor in free air or not more than three copper conductors in raceway or cable and an ambient temperature of 30 degrees centigrade

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web may 1 2020 although as per 90 c column of table 2 the ampacity of such no 3 awg conductor is 115 a in accordance with provisions of rule 4 006 the ampacity of this conductor would be assigned based on 75 c column of

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web table 2 and 4 allowable ampacities of less than 4 insulated conductors rated 0 2000 volts based on 30 c ambient temperature and in a raceway or cable this table provides ampacity values for various sizes of copper and aluminum conductors based on their insulation type and the termination temperature rating

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web preface this is the eleventh edition of csa c22 2 no 0 general requirements canadian electrical code part ii it supersedes the previous editions published in 2010 1991 1982 1975 1960 1956 1950 1941 1936 and 1932 changes in this edition include the following a updates of definitions to align with canadian electrical code

wire and cable ampacity ratings anixter - Apr 26 2022

web for example a 10 awg 3c 600 v cable with xhhw singles would have an ampacity of 35 amps if using the 75 c column in nec 2014 table 310 15 b 16 allowable ampacities of insulated conductors rated up to and including 2000 volts 60 c through 90 c not more than three current carrying conductors in raceway cable