

**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 $x(x + 10) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^x - 2^{x-1} = 12$ (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 $x = -1 \pm 2\sqrt{2}$ 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: $\frac{x+1}{x-1} < 0$. Graphically represent your answer. (5)

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

$$\frac{\sqrt{x^2 y^2 + 4}}{\sqrt{2x^2 + 4}}$$

(4)

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

(3)

[P4]

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2, x + 9, 2x + 5$

- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_5 . (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 -176 ? (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
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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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 a . (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)

[P]

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attack on titan known in japan as shingeki no kyojin many years ago the last remnants of humanity were forced to retreat behind the towering walls of a fortified city to escape the massive man

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12 hours ago attack on titan season 4 part 3 is indeed the end for the long running anime which originally began a whole decade earlier on 7th april 2013 since then we ve had 88 episodes over 10 years with

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sun dec 6 2020 as marley battles the mid east alliance to end a four year war a group of warrior candidates on the front lines compete to be the successor of the armored titan 9 2 10 38k rate watch options

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attack on titan with josh grell bryce papenbrook yûki kaji yui ishikawa after his hometown is destroyed and his mother is killed young eren jaeger vows to cleanse the earth of the giant humanoid titans that have brought humanity to the brink of extinction

attack on titan season 4 part 4 release date how to watch plot - Jul 09 2022

sep 22 2023 attack on titan season 4 part 4 release date time and how to watch attack on titan season 4 part 4 is scheduled to premiere first on japanese television networks at 12 am on sunday november 5

shingeki no kyojin the final season - Aug 22 2023

attack on titan final season diğer adları shingeki no kyojin season 4 attack on titan season 4 japonca 最終季 the final season anime türü fantastik aksiyon shounen süper güçler askeri gizem dram bölüm sayısı 16 16 başlama tarihi 07 aralık 2020 pazartesi bitiş tarihi 29 mart 2021 pazartesi yaş sınırı

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attack on titan season 4 the final season part 4 preview - Mar 05 2022

2 days ago attack on titan season 4 the final season part 4 well lads it is finally here the much awaited attack on titan finale attack on titan aka shingeki no kyojin is a shonen anime that focuses on the walled island of paradis which is overrun by titans after having his parents killed and his home destroyed by titans a young eren yeager and

attack on titan 4 sezon İzle onlinedizi - Sep 11 2022

attack on titan 4 sezon İzle yabancı dizi İzle online dizi İzle dizi İzle kore dizileri

attack on titan 4 hajime isayama amazon com tr kitap - May 07 2022

in this post apocalyptic sci fi story humanity has been devastated by the bizarre giant humanoids known as the titans little is known about where they came from or why they are bent on consuming mankind

attack on titan season 4 part 3 release final episode date - Feb 04 2022

oct 4 2023 season 4 has been stretched out having begun airing back in december 2020 the season will ultimately consist of 30 episodes the final chapters part 1 consisted of two chapters in the first chapter eren reflects on his role in initiating the rumbling saves a boy named ramzi and grapples with the grim reality of the future