JASPER WILLIAMS HIGH SCHOOL YEAR 12 ANNUAL EXAMINATION 2020

MATHEMATICS

Time Allowed: 3 Hours

(An extra 10 minutes is allowed for reading this paper)

INSTRUCTIONS

- 1. Write all your answers in the Answer Book provided. For multiple choice questions, write the letter of the best answer in the space provided in the Answer Book.
- 2. Write your Index Number on the front page of the Answer Book.
- 3. If you use extra sheets of paper, be sure to clearly show the question number(s) being answered and staple each sheet securely in your **Answer Book** at the appropriate place.
- 4. You may use a calculator, provided it is silent, battery-operated and non-programmable.
- 5. Round off answers to 2 decimal places where applicable. Rounding off decimal answer should be done at the final step.
- 6. All questions are compulsory.

Note: The required formulae and table are given on pages 18 - 20.

SUMMARY OF QUESTIONS

	STRANDS	MARKS	SUGGESTED TIME
1.	Basic Mathematics	12	22 minutes
2.	Algebra	18	32 minutes
3.	Graphs	12	22 minutes
4.	Coordinate Geometry	7	13 minutes
5.	Trigonometry	10	18 minutes
6.	Matrices and Transformation	7	13 minutes
7.	Statistics	6	10 minutes
8.	Probability	10	18 minutes
9.	Calculus	. 18	32 minutes
	TOTAL	100	180 minutes

BASIC MATHEMATICS

[12 marks]

- This strand has 8 Questions
- Choose the best answer and write the letter of your choice for Questions 1 3.
- Show all working for Questions 4 8.
- 1. The expression $\log xy \log z$ can be simplified to
 - A. $\log \frac{xy}{z}$
 - B. $\log \frac{z}{xy}$
 - C. $\log xyz$
 - D. $\log xy + z$

(1 mark)

- 2. 2+3 in **modulo 4** is equal to
 - A. 0
 - B. 1
 - C. 2
 - D. 3

(1 mark)

- 3. When simplified $8 + \sqrt{7} + 6\sqrt{7}$ is equal to
 - A. $8 + 7\sqrt{7}$
 - B. $14 + 2\sqrt{7}$
 - C. $\sqrt{57}$
 - D. $\sqrt{28}$

(1 mark)

4. Simplify $\frac{7}{3-\sqrt{2}}$ by rationalizing the denominator

(2 marks)

5. Solve the equation $3^{x+1} = 9$

(1½ marks)

6. Simplify $\frac{4^{5x}}{2^x}$

(1½ marks)

- 7. Shane purchased a laptop on **hire purchase.** She paid \$100 deposit and 24 monthly payments of \$30. Calculate the **total** amount she paid for the laptop. (1 mark)
- 8. The table given below shows the set $\{0, 1, 2\}$ under the operation \star . Use the table to answer parts (a) (c).

*	0	<u>1</u>	2
0	0	1	2
1	1	2	0
2	2	0	**

(a) What is the **identity element**?

(1 mark)

(b) Give the **inverse** of 1.

(1 mark)

(c) Evaluate: (0+1) + 2.

ALGEBRA

[18 marks]

- This strand has 12 Questions
- Choose the best answer and write the letter of your choice for Questions 1 5.
- Show all working for Questions 6 12.
- 1. The solution set of (x-2)(x+3) = 0 is
 - A. {2, 3}
 - B. {2, -3}
 - C. $\{-2, 3\}$
 - D. {-2, -3}

(1 mark)

- 2. If $f(x) = x^2 + x 2$ is divided by x 1, the **remainder** is
 - A. 0
 - B. 1
 - C. 2
 - D. 3

(1 mark)

3. The value of the summation given below is

$$\sum_{n=1}^{n=3} (n+1)$$

- A. 2
- B. 3
- C. 4
- D. 9

(1 mark)

4. If 4m + k = 9, then

A.
$$m = \frac{9-k}{4}$$

B.
$$m = \frac{9+k}{4}$$

C.
$$m = \frac{9}{4} - k$$

D.
$$m = 9 - \frac{k}{4}$$

5.	The third term of the arithmetic sequence	$\langle 2x, 5x, \dots \rangle$	is
J.	the time term of the artifuletic sequence	$\{\Delta \lambda_j, \partial \lambda_j, \dots, \ldots\}$	/ 1

- A. 3*x*
- B. 7*x*
- C. 8x
- D. 11x (1 mark)

6. Use the quadratic formula
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$
 to solve $x^2 - 2x - 4 = 0$ (2 marks)

- 7. Consider the quadratic equation: $3x^2 4x + 5 = 0$.
 - (a) Calculate the value of the **discriminant**. (1 mark)
 - (b) Hence, state the **nature** of the roots. (1 mark)

8. Simplify:
$$\frac{4x}{y} - \frac{x}{3} \div \frac{y}{3}$$
 (2 marks)

9. Solve:
$$\frac{x+1}{3} = \frac{2x+6}{8}$$
 (2 marks)

10. A geometric sequence is given as 100, 20, 4,

Find the sum to infinity. (1 mark)

11. A polynomial function is given by:
$$f(x) = x^3 - 5x^2 - 2x + 24$$
.
Given that $x + 2$ is one of the factors of $f(x)$, find the other two factors. (2 marks)

12. The first four terms of an arithmetic sequence are given as $(2, 6, 10, 14, \dots)$.

(a) The 6th term.

Calculate:

(1 mark)

(b) The sum of the first 10 terms.

GRAPHS

[12 marks]

- This strand has 7 Questions
- Choose the best answer and write the letter of your choice for Questions 1 4.
- Show all working for **Questions 5 7.**
 - 1. A relation is given by a set of ordered pairs: $\{(1,2),(2,4),(3,6)\}$.

The inverse of this relation is

A.
$$\{(2,1),(4,2),(6,3)\}$$

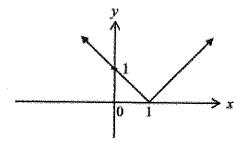
B.
$$\{(1,2),(2,4),(3,6)\}$$

C.
$$\{(-1,2), (-2,4), (-3,6)\}$$

D.
$$\{(-1, -2), (-2, -4), (-3, -6)\}.$$

(1 mark)

2. The equation of the absolute value function shown below is



A.
$$y = |x| + 1$$

B.
$$y = |x| - 1$$

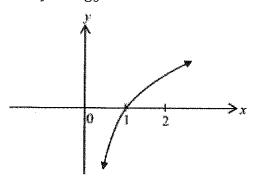
C.
$$y = |x - 1|$$

D.
$$y = |x + 1|$$

(1 mark)

- 3. The coordinates of the centre of the circle $(x-3)^2 + y^2 = 4$ are
 - A. (3,0)
 - B. (3,4)
 - C. (-3,0)
 - D. (-3,4)

4. Consider the graph of the function $y = \log_3 x$ shown below.



The domain of this function is

A.
$$x > 0$$

B.
$$x \ge 0$$

C.
$$x = \{0, 1, 2\}$$

D.
$$x = \{0, 1, 2, \dots \}$$

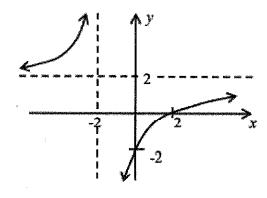
(1 mark)

5. Find the x coordinates of the points of intersection of the functions

$$y = x + 5$$
 and $x^2 + y^2 = 25$

(2 marks)

6. A hyperbolic function is given below.



(a) Write down the x and y intercepts of this function.

(1 mark)

(b) Give the equations of the horizontal and vertical asymptotes.

(1 mark)

(c) Determine the equation of this hyperbola.

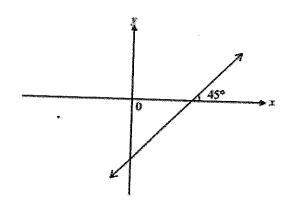
(2 marks)

7. Sketch the graph of y = (x + 2)(x - 1)(x - 3) clearly showing all intercepts. (2 marks)

COORDINATE GEOMETRY

[7 marks]

- This strand has 4 Questions
- Choose the best answer and write the letter of your choice for Questions 1 2.
- Show all working for **Questions 3 4.**
- 1. A line makes an angle of with the **positive** axis.



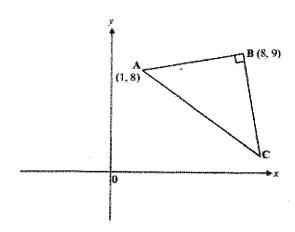
The gradient of this line is

- A. 1
- B. 2
- C. 3
- D. 4

(1 mark)

- 2. If the lines y = kx and $y = \frac{1}{4}x$ are **perpendicular**, then the value of k is
 - A. 4
 - B. 1/4
 - C. -1/4
 - D. -4

3. The diagram given below shows a **right-angled** triangle with vertices **A**, **B** and **C**.



The coordinates of point A = (1, 8) and B = (8, 9). AB is perpendicular to BC.

(a) Calculate the **length** of **AB**.

(1 mark)

(b) Calculate the gradient of AB.

(1 mark)

(c) Hence, determine the gradient of BC.

(1 mark)

4. Show that the following points are collinear: (1, 4), (4, 6) and (10, 10)

(2 marks)

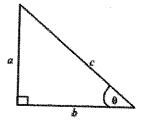
TRIGONOMETRY

[10 marks]

- This strand has 6 Questions
- Choose the best answer and write the letter of your choice for Questions 1 2.
- Show all working for Questions 3 6.
- 1. How many radians make up a full turn?
 - A. 2
 - Β. π
 - C. 2π
 - D. 360

(1 mark)

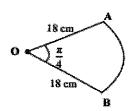
2. Which of the following expressions gives the size of angle θ ?



- A. $tan^{-1}\left(\frac{a}{b}\right)$
- B. $tan^{-1}\left(\frac{b}{a}\right)$
- C. $sin^{-1}\left(\frac{b}{c}\right)$
- D. $\cos^{-1}\left(\frac{a}{c}\right)$

(1 mark)

3. A sector with centre O, radius 18 cm and angle $\frac{\pi}{4}$ radians is shown below.

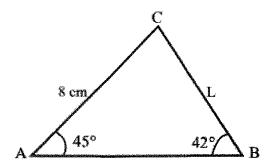


(a) Calculate the length of arc AB

(1 mark)

(b) Calculate the area of the sector.

4. Calculate the value of the side marked \boldsymbol{L} in the triangle below.



(2 marks)

5. Sketch the graph of $y = 3\sin(\theta + 90^\circ)$ for $0^\circ \le \theta \le 360^\circ$

(2 marks)

6. Solve the trigonometric equation $\sqrt{3} \tan \theta = 1$ for $0^{\circ} \le \theta \le 360^{\circ}$

(2 marks)

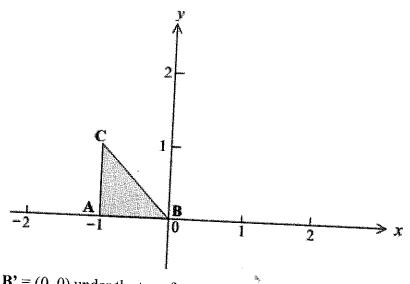
MATRICES AND TRANSFORMATION

[7 marks]

- This strand has 2 Questions
- Choose the best answer and write the letter of your choice for Question 1.
- Show all working for Question 2 (a).
- 1. A square is transformed by the matrix $\begin{pmatrix} 3 & 0 \\ 0 & 3 \end{pmatrix}$. By what factor does the area of the square increase?
 - A. 3
 - B. 6
 - C. 9
 - D. 81

(1 mark)

2. Triangle **ABC** shown below is transformed by the matrix $N = \begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$.



The coordinates of $\mathbf{B}' = (0, 0)$ under the transformation by matrix \mathbf{N} .

- (a) Find the coordinates of A' and C' the images of A and C under the transformation by matrix N.
- (b) On a pair of axes given in the Answer Book draw and label the image A'B'C' of this triangle. (2 marks)
- (c) Describe fully the transformation represented by matrix N.

(2 marks)

(d) Give one property of triangle ABC that is invariant under this transformation.

(1 mark) (1 mark)

STATISTICS

[6 marks]

- This strand has 3 Questions
- Choose the best answer and write the letter of your choice for Questions 1 2.
- Show all working for **Question 3.**
- 1. A set of scores has a mean of 5. If all of the scores are multiplied by 10, the new mean will be
 - A. 5
 - B. 10
 - C. 15
 - D. 50

(1 mark)

- 2. A set of scores has a standard deviation of 6. If 10 is **added** to each score, the new **standard deviation** will be
 - A. 6
 - B. 10
 - C. 16
 - D. 60

(1 mark)

3. The table below shows scores from a maths quiz.

х	f	fx	$(x-\bar{x})^2$	$f(x-\bar{x})^2$
1		1	4	4
2	4	8	1	4
3	9	27	The bound of the second of the	
4	6	24	A STATE OF THE STA	
Total	20	60		14

(a) Calculate the mean score.

(1 mark)

(b) Hence, complete the table by filling in the missing values in the boxes in the Answer Booklet.

(2 marks)

(c) Calculate the standard deviation.

PROBABILITY

[10 marks]

- This strand has 5 Questions
- Choose the best answer and write the letter of your choice for Questions 1 2.
- Show all working for Questions 3 5.
- 1. A set of quiz score is **normally distributed** with mean = 50 and standard deviation = 5. A score selected at random will **almost certainly** lie between
 - A. 35 and 50
 - B. 35 and 65
 - C. 40 and 60
 - D. 45 and 55

(1 mark)

2. The **outcomes** of a coin and a die tossed together are shown below.

	die													
		No.	2	3	4	5	6							
coin	Н	H, 1	H, 2	Н, 3	H, 4	H, 5	Н, 6							
	T	Т, 1	T, 2	Т, 3	Т, 4	Т, 5	Т, б							

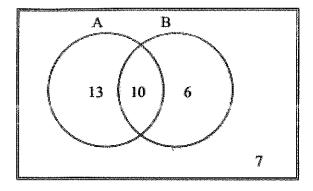
What is the probability of getting a tail and an even number?

- A. $\frac{1}{12}$
- B. $\frac{2}{12}$
- C. $\frac{3}{12}$
- D. $\frac{6}{12}$ (1 mark)
- 3. A jar contains 3 red marbles and 2 green marbles, all of same size and shape. A marble is withdrawn at random and its colour is noted. **Without replacing** this marble, another marble is randomly withdrawn. What is the probability that the marbles are of **different** colours? (2 marks)

4. The **Venn diagram** shown below illustrates the results of a survey of the subjects taken by a class of Year 12 students.

A = number of students taking Agriculture.

B = number of students taking Biology.



(a) How many students were surveyed?

- (b) One student is picked at random from this class. What is the **probability** that the student takes Agriculture? (1 mark)
- 5. The heights of Year 12 students are **normally distributed** with a mean of 160 cm and a standard deviation of 4 cm.
 - (a) What is the probability that a randomly selected Year 12 student has the height **between** 149 cm and 171 cm? Give your answer correct to 3 decimal places. (3 marks)
 - (b) From a sample of 1000 Year 12 students, how many may be **expected** to have the height **between** 149 cm and 171 cm? (1 mark)

CALCULUS

[18 marks]

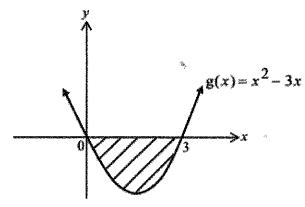
- This strand has 6 Questions
- Choose the best answer and write the letter of your choice for Questions 1 2.
- Show all working for **Questions 3 6.**
- 1. The derivative of a function f(x) is given by f'(x) = -3x. For which values of x is the function f(x) increasing?
 - A. x < 0
 - B. x > 0
 - C. $x \le 0$
 - D. $x \ge 0$

(1 mark)

- 2. If y = f(x) then f'(k), where k is a constant, is equal to the
 - A. gradient of the normal at x = k
 - B. gradient of the tangent at x = k
 - C. definite integral between 0 and k
 - D. area enclosed between y = f(x) and y = k

(1 mark)

3. The area bounded by the curve $g(x) = x^2 - 3x$ and the x-axis is shaded below.



Calculate the area of the shaded region.

(3 marks)

- 4. A **cubic function** is given by the equation $y = x^3 + 3x^2 9x + 2$.
 - (a) **Differentiate** to find $\frac{dy}{dx}$

(2 marks)

(b) Hence, determine the coordinates of the turning points.

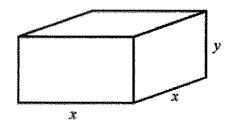
(3 marks)

5. The **gradient** function of a curve is given by $\frac{dy}{dx} = x^2 - 9$.

Find the equation of the curve given that it passes through the point (0, 1)

(3 marks)

6. A box with a square base and no top needs to be made from $12m^2$ of metal. The length of the base of the box is x metres and its height is y metres, as shown below.



(a) Find an expression for the height y of the box in terms of x.

(1 mark)

(b) Express the volume, V, of the box in terms of x.

(1 mark)

(c) Determine the value of x which will **maximize** the volume of all such boxes.

(3 marks)

THE END

FORMULAE

Strand 1 - Basic Mathematics

Exponents

$$1. \quad a^m \times a^n = a^{m+n}$$

2.
$$a^m + a^n = a^{m-n}$$
; $a \neq 0$

3.
$$(a^m)^n = a^{mn}$$

$$4. \quad (ab)^m = a^m b^m$$

5.
$$a^0 = 1$$
; $a \neq 0$

Logarithms

1.
$$log ab = log a + log b$$

2.
$$\log \frac{a}{b} = \log a - \log b$$

3.
$$\log x^n = n \log x$$

4.
$$y = b^x \leftrightarrow log_h y = x$$

5.
$$y = e^x \leftrightarrow x = \ln y \quad (\ln y = \log_e y)$$

Strand 2 - Algebra

Arithmetic Sequence

1.
$$T_n = a + (n-1)d$$

2.
$$S_n = \frac{n}{2}[2a + (n-1)d]$$

Geometric Sequence

1.
$$S_n = \frac{a(1-r^n)}{1-r}; r \neq 1$$

$$2. \quad T_n = ar^{n-1}$$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

3. $S_{\infty} = \frac{a}{1-r}$; if |r| < 1

Strand 3 - Graphs

Equation of a circle centre (a, b) with radius r is

$$(x-a)^2 + (y-b)^2 = r^2$$

Strand 4 - Coordinate Geometry

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

3. Gradient

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

2. Equation of the line through (x_1, y_1) and (x_2, y_2) is

$$y-y_1 = m(x-x_1)$$

Strand 5 - Trigonometry

Area

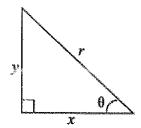
- 1. Area of triangle = $\frac{1}{2}ab\sin C$
- 2. Area of Sector = $\frac{1}{2}r^2\theta$

Sine and Cosine Rules

$$1. \quad \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

2.
$$a^2 = b^2 + c^2 - 2bc \cos A$$

Basic Functions



- 1. $\sin \theta = \frac{y}{r}$ 4. $\cot \theta = \frac{x}{y} = \frac{\cos \theta}{\sin \theta}$
- 2. $\cos\theta = \frac{x}{r}$ 5. $\sec\theta = \frac{r}{x} = \frac{1}{\cos\theta}$ 3. $\tan\theta = \frac{y}{x} = \frac{\sin\theta}{\cos\theta}$ 6. $\csc\theta = \frac{r}{y} = \frac{1}{\sin\theta}$

Basic Identities

1.
$$\cos^2\theta + \sin^2\theta = 1$$

2.
$$\tan^2\theta + 1 = \sec^2\theta$$

Strand 6 - Matrices and Transformation

If
$$M = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$
,

1.
$$\det M(M) = ad - bc$$

$$2. \quad \mathbf{M}^{-1} = \frac{1}{|\mathbf{M}|} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$$

Strand 7 - Statistics

Individual Data

1.
$$\bar{x} = \frac{\sum x}{n}$$

$$2. \quad s = \sqrt{\frac{\sum (x - \bar{x})^2}{n}}$$

Grouped Data

$$1. \quad \bar{x} = \frac{\sum fx}{\sum f}$$

$$2. \quad s = \sqrt{\frac{\sum f(x - \bar{x})^2}{\sum f}}$$

Strand 9 - Calculus

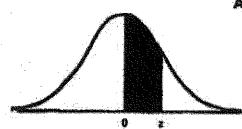
Differentiation

$$\frac{d}{dx}(x^n) = nx^{n-1}$$

Indefinite Integral

$$\int x^n dx = \frac{x^{n+1}}{n+1}$$

Strand 8 - Probability



AREAS UNDER NORMAL PROBABILITY CURVE

The tabulated value is the probability that the standardized normal variate Z (with μ =0, c=1) lies between 0 and z. e.g. P(0 < 2 < 1.43) = 42.36%

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. 1	. 4821	. 4826	.4830	.4834	. 4838	. 4842	.4846	.4850	4854	4857	0	1	1	2	2	2		3	Š.
. 2	. 4861	4864	4868	.4871	4875	.48/8	. 4881	. 4884	. 4887	4890	0	1	1	1	2	2	2	*	1
. 3	.4893	4895	. 4898	. 4901	4904	4906	. 4909	.4911	4913	4916	0	O	1	1	3	2	2	2	2
*₩	.4918	4920	.4922	.4925	.4927	.4929	. 4931	. 49 32	4934	.4916 .4936	ø	O	1	Ĭ	\$		1		2
5	.4938	4940	.4941	. 494 3	. 4945	.4945	.4948	. 4949	4951	. 4952	0	0	o.		1	ş	,	1	2
6	. 4953	4955	4956	4957	.4959	4960	. 4961	4962	4964	4054	Ö	0	o i	4	- 1	1	1	1	1
7	.4965	.4966	4967	.4968	. 4969	. 4970	.4971	. 4972	4973	4974	ø	0	0	0	Ø	*	1		1
8	. 4974	4975	4976	. 4977	.4977	.4978	. 4979	. 4979	4980	.4974 4981	0	0	0	0	0	Ö	0	0	*
9	.4981	.4982	.4982	.4983	.4984	.4984	. 4985	. 4985	, 4986	.4986	0	0	Ď		0	A	G	0	ţ
0	.4987	.4987	.4987	.4988	. 4988	.4989	.4989	. 4989	.4990	.4990	0	0	0	٥		¢		0	0
1	.4990	. 4991	4991	. 4991	.4992	.4992	. 4992	. 1992	.4993	.4993 .4995	0	0	0	0		0	0		0
2	. 4993	.4993	.4994	.4994	.4994	.4994	.4994	· 1935	.4995	.4995	٥	0	0		0		0		0
3	.4995	.4995	.4995	.4996	.4996	,4996	. 1995	. 1996	.4996	.4997	0	0	0		Đ	Ç.	٥	O	0
4	.4997	.4997	.4997	. 4997	. 4997	.4997	.4997	.4997	. 1997	.4998	0	0	0	0	Đ	0	0	0	0
5	.4998	. 4998	.4998	.4998	.4998	. 4998	-4998	. 4998	. 4998	.4998		0				0			Û
6	, 4998	.4998	.4999	. 4999	.4999	.4999	.4999	. 4999	.4999	.4999	0	0			O			0	2
7	.4999	.4999	.4999	. 4999	.4999	. 4993	. 4999	. 4999	. 4999	.4999	0	Ġ	0			0	0	0	٥
8	. 4999	.4999	.4999	.4999	4999	.4995	.4999	. 4999	. 4999	.4999	0	0	0		0	90	۵	0	Ü
9	.5000	. \$000	.5000	. 5000	. 5000	.5000	Sano	sana	SOOD	FOOO	•	0	O.	n.	Đ	3	a	۵	û