

### GRADE 10 MATHEMATICS MARCH TEST

#### QUESTION 1

- 1.1 Copy and complete the following table on your answer sheet. Only tick in the applicable columns.

	N	N <sub>1</sub>	Z	Q	Q'	R	R'
$\sqrt{9} + 3$							
$\frac{1}{\frac{1}{2}}$							
$0,7(13)$							
$\sqrt{9}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 5104.

$$5104 = 2^4 \times 11 \times 59$$

#### QUESTION 2

Factorise the following expressions:

2.1  $x^2 - 49$

2.2  $2x^2 + 12x + 18$

2.3  $6x^2 - 12x + 6$

2.4  $3x^2 + 9x - 12$

#### QUESTION 3

Simplify the following expressions:

3.1  $(x - 5)(3x + 2)$

3.2  $(x^2 + 2x + 1)(x - 1)$

3.3  $\frac{3x^2 + 6x}{3x}$

#### QUESTION 4

Simplify the following using the exponential laws.

4.1  $\frac{1}{x^2}$

4.2  $\frac{1}{x^2} \times x^3$

Solve for  $x$ :

4.3  $2^x - 5 = 11$

#### QUESTION 5

Solve for  $x$ :

5.1  $(x - 3)(x + 5) = 0$

5.2  $3x^2 + 12x + 12 = 0$

5.3  $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

5.4  $\frac{3x+1}{x} - 5 > 0$

5.5 Solve  $x$  and  $y$  simultaneously:

$$x + y = 10$$

$$2x - y = 2$$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

$$J + S = 19$$

#### QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

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