REVISION 3
Section B
[20 marks]
Answer all the equations.

1. a) Determine whether each of the following statements is '**True**' or '**False**'

   i) 5 is a prime factor of 20 ☐

   ii) 3 is a prime factor of 29 ☐

   iii) 4 is a prime factor of 16 ☐

[3 marks]

b) Diagram 10 shows an irregular polygon

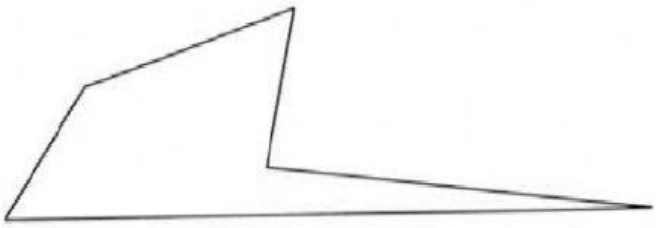


Diagram 10

Determine the number of sides and the name of the polygon.

Number of sides	
name	

[2 marks]

2.a) Given ξ = {letter in the word ' B A D M I N T O N'} and P = { vowels}. Complete the table in the answer space.

Number of elements in ξ	
Complement of set P	{ }

[2 marks]

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Section C
[60 marks]
Answers all the equations

1. a) Find the value of each of the following.

i) $27 - \sqrt[3]{-8}$

ii) $(-3)^3 + \sqrt[3]{\frac{27}{216}} - \sqrt{0.0081}$

[4 marks]

Answer:

i)

= - ( )

=

ii)

= ( ) _____

=

b) Solve the following simultaneous linear equation.

$$3g + h = 1$$
$$-2g + 2h = 10$$

[3 marks]

Answer:

3g + h = 1 ..... eqn 1

-2g + 2h = 10 .....eqn 2

Substitute g = in eqn 1

Eqn. 1 x 2

( ) + =

+ = ...eqn 3

h =

Eqn 2 eqn 3

+ = ….eqn 2

+ = ….eqn 3

g =

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2.

a) Solve the following simultaneous linear inequalities

$$3x - 1 > 8 \; and \; x \geq 2x - 6$$

[3 marks]

Answer:

$>$ $\geq$

x x

b) Diagram 19 shows the distribution of student's quiz marks.

5	3	2	4	3	2	6	3	5	4

Diagram 19

Complete the frequency table below:

Quiz mark	Number of students
2	
3	
4	
5	
6	

Determine the quiz mark with the highest frequency

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