

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

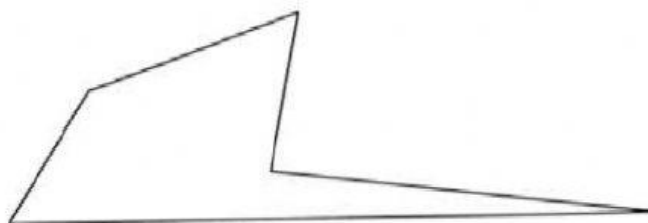


Diagram 10

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

Number of sides	
name	

[2 marks]

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

Number of elements in ξ	
Complement of set P	{ }

[2 marks]

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.

$$\begin{aligned} 3g + h &= 1 \\ -2g + 2h &= 10 \end{aligned}$$

[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 =

2.

a) Solve the following simultaneous linear inequalities

$$3x - 1 > 8 \text{ and } x \geq 2x - 6$$

[3 marks]

Answer:

$$\begin{array}{ccc} & > & \geq \\ & & \\ x & & x \end{array}$$

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

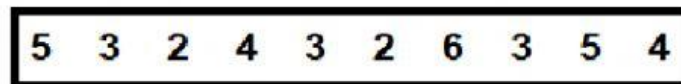


Diagram 19

Complete the frequency table below:

Quiz mark	Number of students
2	
3	
4	
5	
6	

Determine the quiz mark with the highest frequency