BOW VALLEY COLLEGE | School of Creative Technologies

Math for the Computer Industry

MATH1901: **Assignment 1**

Full Name: _____

BVC ID# _____ **DATE** _____

DIRECTIONS

This assignment focuses on Unit 1: Basic Algebra. Part marks are awarded for questions for showing your work.

Students may complete their assignments on loose leaf or blank paper, or on the computer. Scan your answers and submit them in the drop box. Only 1 file will be graded.

Please refer to assignment rules before attempting your assignment. If you want to succeed in this course please work independently.

SCORE:_____/22

Given an example if possible
(5 MARKS)

1) A natural number that isn't an integer

2) An integer that isn't a natural number

3) A rational number that isn't a natural number

4) A natural number that isn't rational

5) A natural number that isn't real

Write the following in computer notation:
(1 MARKS)

6) $\frac{6(ab+bc)}{4}$

Simplify
(3 MARKS):

7) $-(x)^0$

8) x^{-3}

9) $\left(\frac{-a^2b^3c^0}{4a^3b^4c^3}\right)^{-4}$

Simplify:
(2 Marks)

10) $(3u^3v^4+9u)-(3u^3v^4-8u+8u^2v^2)+(-8u^2v^2+8u^3v^4)$

11) $(14a^5-2a-9a^3)-(10a-2a^5-14a^3)$

Solve:
(2 MARKS)

12) $-28+2s=-2(3s-8)$

13) $4(6r+9)=(-r)/2$

Solve:
(3 MARKS)

14) $3x+9 \geq 42$

15) $-4(-8+x) > 40$

16) $2+\frac{z}{2} < 16$

Write each expression in exponential form
(2 MARKS)

17) $\left(\sqrt[2]{3}^4\right)$

18) $\left(\sqrt[6]{9a}^2\right)$

Write each expression in radical form
(2 MARKS)

19) $(9x)^{\frac{7}{5}}$

20) $(2p+4)^{-\frac{4}{3}}$

Simplify
(2 MARKS)

21) $27^{-\frac{5}{2}}$

22) $(121x8)^{1/2}$