Pre-Assessment

Andres Schelp, Political Science, IR

(1) a) i. +8.75 8.75 + 4.5 = 13.25

ii. The sum of all the numbers in a series

0.75 b) i) $4 \geq x - 7 \rightarrow$ $|11 \geq x|$

ii) $-9x + 2 > 3$

$-9x > 1$

$|x < -\frac{1}{9}|$

iii) $|x-2| \leq 2$

$x - 2 \leq 2$ $\quad$ $x - 2 \leq -2$

$|x \leq 4|$ $\quad$ $|x \leq 0|$

$0 \leq x \leq 4$

iv) $2e^{6x} = 18 \rightarrow e^{6x} = 9$

v) $e^{x^2} = 1$

vi) $\ln(x^2) = 5$

viii) $4! = 4.3.2.1$

ix) $\left(\frac{x^{\frac{2}{4}} y^{-\frac{1}{3}}}{x^{\frac{1}{2}} y^{\frac{1}{3}}}\right)^3 = \left(\frac{x^2}{y}\right)^3 = \frac{x^6}{y^3}$

c) +3

i) $m^2 + 3m + 2$

$= (m+1)(m+2)$

ii) $x^2 + 5x + 6$

$= (x+2)(x+3)$

iii) $x^2 + x$

$x(x+1)$

2. +0

i. Error

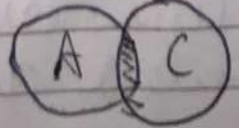
ii.

b) i. The union (Conjuction) of all elements included in A and B.

Ex. 

ii) $C = \{2, 2, 2\}$

iii) The elements of A and C that match (ONLY)

Ex. 

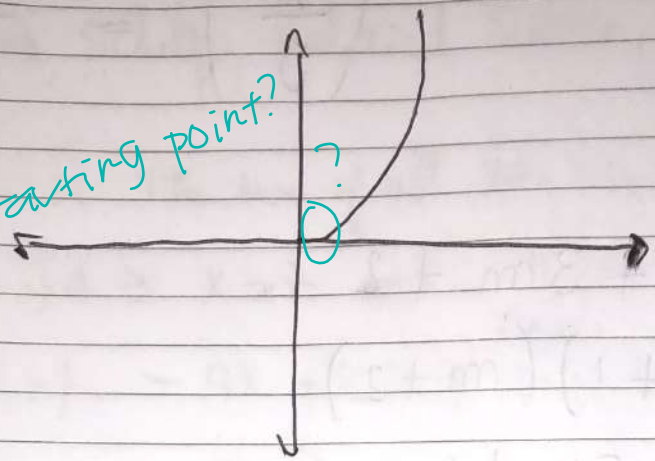
+1.75

3. a) A function that does not have leaks it exist throughout all Real Numbers

1

b)

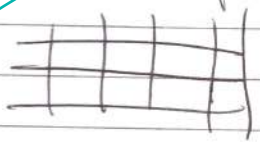
0.25



c) It intersects a function only

0.5 in one point of it

④ a) Low experience +0

b) 

⑤ a) 4 +0

b) ~~XXXXX~~ 6m - 8 c) d) Do not know

+2

⑥ a) The probability of the occurrence of A.

1 b) An event that is not affected (its probability) by other event

⑦ a) A continuous variable can take every value, while a discrete variable only takes certain values "countable"

+0.75