1. [11 points] Let

x	-1	0	1	2	3
f(x)	20	35	60	85	100
g(x)	192	48	12	3	0.75
h(x)	-31	-20	-9	2	13

$$k(x) = 0.3(x - 5)^2 - 3$$

a. [9 points] Answer the following questions using the functions given above.

Solution:

i) Which of the functions could be (or are) linear? Circle all that apply.

None.

ii) Which of the functions could be (or are) concave up? Circle all that apply.

None.

iii) Which of the functions could be (or are) exponential? Circle all that apply.

None.

iv) Which of the functions could be (or are) increasing? Circle all that apply.

None.

b. [2 points]

Given the values of p, W and Z shown in the tables above, which of the following statements could be true? Circle all that apply.

Solution:

p is a function of W

Z is a function of W

W is a function of Z

None of these