Practice Exercise 2.1

1. Classify the following sentence as a statement, not statement or an open statement.

a. Chiangmai Province is in the central region. _____

b. In the year 2017, there was a big flood in Bangkok. _____

c. The water rises, hurry up and scoop. _____

d. $\sqrt{3} = 1.732$ _____

e. $2x + 3 = 8$ _____

f. Please, don't bring food inside the classroom. _____

g. x is larger than 4 _____

h. π is a real number _____

i. Substitute 4 for x _____

j. Come and join the party! _____

2. Determine whether the following open statements become true or false after replacing the given values of x from a) and b).

Open Statement		Values of x	
1. $x^2 - 5x + 6 = 0$	a.) $x = 2$	b.) $x = -2$
2. $x^2 - x - 6 = 0$	a.) $x = 2$	b.) $x = -2$
3. $x^2 \leq 4$	a.) $x = -2$	b.) $x = 0$
4. $\sqrt{x^2} = x$	a.) $x = 3$	b.) $x = -3$
5. $\dfrac{x}{x} = 1$	a.) $x = -4$	b.) $x = 0$