Exercise 3.4

(Objective $3.5, \overline{3.6, 3.7}$)

1. To check if x has an absolute value smaller than 4, which of the following conditional expression can be used?

```
A. x \le 4 and x \ge 4

B. x \le 4 and x \ge -4

C. x \le 4 and x \ge -4

D. x \le 4 or x \ge -4
```

2. Suppose, when you run the following program, you enter the input 2, 3, 6 from the console. What is the output?

```
x = float(input("Enter a number: "))
y = float(input("Enter a number: "))
z = float(input("Enter a number: "))

print("(x < y and y < z) is", x < y and y < z)
print("(x < y or y < z) is", x < y or y < z)
print("not (x < y) is", not (x < y))
print("(x < y < z) is", x < y < z)
print("not (x < y < z) is", not (x < y))</pre>
```