## Exercise 1

Assuming that the variable x is storing 1, determine the result of the boolean expressions below.

(a)	(true) && (4 < 3)	Result: false	
(b)	! (x < 0) && (x < 0)	Result: false	
(c)	(x < 0)     (x > 0)	Result: true	
(d)	(x != 0)    (x 0)	Result: true	
(e)	(x >= 0)    (x < 0)	Result: true	
(f)	(x !- 0) ! (x 0)	Result: true	

## Exercise 2

Assuming that x and y are int type, which of the followings are legal Java expressions?

(a)	x > y > 0	[ legal	illegal
(b)	* = y    y	legal	☐ illegal
(c)	x /= y	legal	[ illegal
(d)	x or y	legal	lillegal
(e)	x and y	☐ legal	☑ illegal
(f)	(x != 7) () (x = 7)	legal	✓illegal

## Exercise 3

2

English name in FULL

```
Exercise 4
```

## Exercise 5

(x >= 1) && (x <= 30) || X < 0