## **Simulation**

## Exercise 1:

- 2. minimum and maximum valid inputs, 92767
- ~1, -32768, -4 3. invalid inputs, and
- 35 , 768 4. randomly-chosen values.

Give examples of appropriate test inputs for each of the above categories if you were testing a circuit that computed the square root of a 16-bit signed number.

6-bit signed number.  

$$0 \rightarrow 32767$$
 Positive 16-bit signed integers  
 $-1 \rightarrow -32768$  negative "

**Exercise 2**: What's the difference between wait(x) y='1; and

wait for any change

in X

"\" wait until X is hon-Zero

## Exercise 3: How could you:

- (a) terminate the simulation if a test vector failed?
- (b) change the clock frequency to 10 MHz?
- (c) print each test vector as it's read?
- (d) assert the reset input for two clock cycles?