Simulation

Exercise 1:

- 1. typical inputs, 9, 4
- 2. minimum and maximum valid inputs, هې ۱۵ ۱۸۶۴۶
- 3. invalid inputs, and 16'h fff
- 4. randomly-chosen values. 373

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.

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

wait for change in X

by wait for x \$0

Exercise 3: How could you:

- (a) terminate the simulation if a test vector failed? Use +inis
- (b) change the clock frequency to 10 MHz? Change delay to 50 ns (#50 ns).
- (c) print each test vector as it's read? use \$display() (see notes)
- (d) assert the reset input for two clock cycles? have two lines with reset = 1