# Simulation

**Exercise 1**:

1. typical inputs,
2. minimum and maximum valid inputs,
3. invalid inputs, and
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.

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

**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?