Quiz 6

Let f be the function whose graph is shown on the screen.

1 What is f(11)?

Since (11, 1) is on the graph,

f(11) = 1.

2 For what values of x is it true that f(x) > 0?

The portion of the graph above the x-axis corresponds to those x-coordinates such that f(x) > 0. This is the portion between -3 and 6 or beyond 10; the latter subportion of course only goes to 11. So the relevant values of x are those such that

$$-3 < x < 6$$
 or $10 < x \le 11$.

3 Solve the equation f(x) = 3.

Since (0,3) and (4,3) are on the graph but no other example of (x,3) is on the graph,

$$x = 0 \text{ or } x = 4.$$