## Iteration 1

## Alan Windsor

Use Applet 1 to help you solve the equation

$$x^2 - 5x + 1 = 0$$

- 1. (a) Change the values of a,  $x_0$  and t to a=5,  $x_0=1$  and t=10. Write down the value of  $x_{10}$  correct to 2 decimal places.
  - (b) What type of iteration is displayed, cobweb, diverent or staircase.
- 2. Re-set the applet and set a=8 and  $x_0=2.5$ . Find the values of  $x_1$  to  $x_6$  correct to 2 decimal places.