

Figure 21.2: Drawing of the graph from Example 2.

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A = diag(ones(1, 11),1);
A = A + A';
A(1, 12) = 1; A(12, 1) = 1;
D = diag(sum(A));
L = D - A;
[v, e] = eig(L);
gplot(A, v(:, [2 3]))
hold on
gplot(A, v(:, [2 3]), 'o')

```

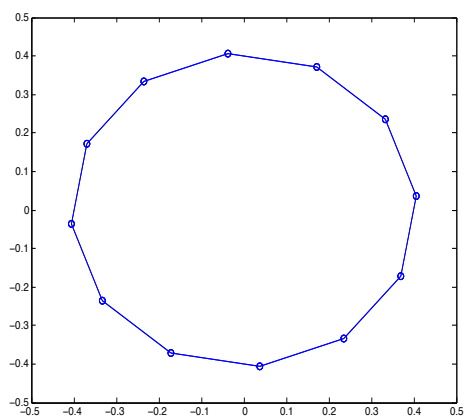


Figure 21.3: Drawing of the graph from Example 3.

Observe that we get a very nice ring; see Figure 21.3. Again $\lambda_2 = 0.2679$ is a double eigenvalue (and so are the next pairs of eigenvalues, except the last, $\lambda_{12} = 4$).