Columns 5 through 6

```
M =
    0
                    1
            1 0
                           0
    1
             1
                 1
                      1
                           1
    0
        0
             0
                  0
                       0
                            1
    1
                 0
        1
             1
                      1
                           1
                      0
    0
        1
             0
                  1
                           1
    1
        1
                 1
                      1
                           0
             1
>> [rows, cols] = size(M)
rows =
   6
cols =
   6
>> dim = rows
dim =
  6
>> [V, D] = eig(M)
V =
 Columns 1 through 2
  0.2830 + 0.0000i - 0.6470 + 0.0000i
  0.4956 + 0.0000i -0.0158 + 0.2181i
  0.1353 + 0.0000i 0.1385 - 0.1569i
  0.4956 + 0.0000i -0.0158 + 0.2181i
  0.4059 + 0.0000i 0.4154 - 0.4707i
  0.4956 + 0.0000i -0.0158 + 0.2181i
 Columns 3 through 4
 -0.6470 + 0.0000i 0.0000 + 0.0000i
 -0.0158 - 0.2181i -0.0000 + 0.0000i
  0.1385 + 0.1569i - 0.7071 + 0.0000i
 -0.0158 - 0.2181i -0.0000 + 0.0000i
  0.4154 + 0.4707i 0.7071 + 0.0000i
 -0.0158 - 0.2181i -0.0000 + 0.0000i
```

```
-0.7071 + 0.0000i -0.1350 + 0.0000i
 -0.0000 + 0.0000i -0.4908 + 0.0000i
 -0.0000 + 0.0000i -0.4908 + 0.0000i
  0.7071 + 0.0000i 0.1350 + 0.0000i
  0.0000 + 0.0000i 0.4908 + 0.0000i
D =
 Columns 1 through 2
  3.6631 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i - 0.8315 + 0.6329i
  0.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i 0.0000 + 0.0000i
 Columns 3 through 4
  0.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i 0.0000 + 0.0000i
 0.0000 + 0.0000i -0.0000 + 0.0000i
  0.0000 + 0.0000i
                  0.0000 + 0.0000i
  0.0000 + 0.0000i
                  0.0000 + 0.0000i
 Columns 5 through 6
  0.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i 0.0000 + 0.0000i
 -1.0000 + 0.0000i 0.0000 + 0.0000i
  0.0000 + 0.0000i -1.0000 + 0.0000i
>> D = diag(D)
D =
  3.6631 + 0.0000i
 -0.8315 + 0.6329i
 -0.8315 - 0.6329i
 -0.0000 + 0.0000i
 -1.0000 + 0.0000i
 -1.0000 + 0.0000i
>>  if D(1) ==  real(D(1)) \times = V(:, 1);  else \times =  zeros(cols, 1);  end; 
>> x = x / sum(x);
```

>> x

x =

0.1225

0.2145

0.0585

0.2145

0.1756

0.2145

>>