

**MARKS**

**15.** (a) Solve the equation  $\sin 2x^\circ + 6 \cos x^\circ = 0$  for  $0 \leq x < 360$ .

**4**

(b) Hence solve  $\sin 4x^\circ + 6 \cos 2x^\circ = 0$  for  $0 \leq x < 360$ .

**1**