

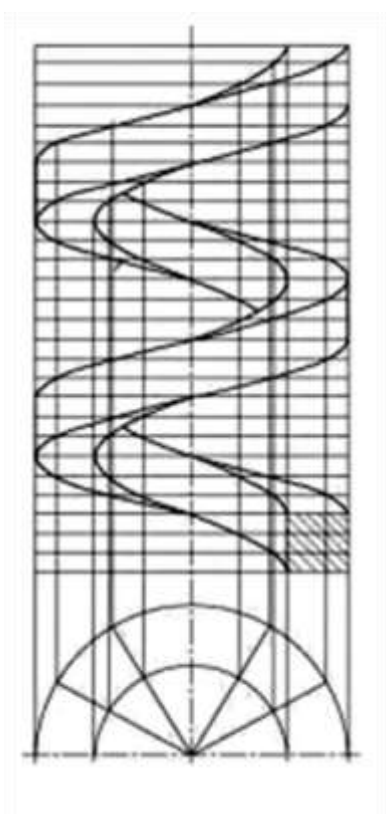
KING'S COLLEGE, BUDO, S6 P1, TECHNICAL DRAWING ASSIGNMENT FOR WEEK 1

### CONSTRUCTION OF A SPRING WIRE OF SQUARE CROSS SECTION

1 Using the specifications obtained during our last lesson, draw;

- (i) two turns of a right hand spring.
- (ii) two turns of a left hand spring.

NB; The cases demonstrated above and below are of a right hand spring.



- 2 The insertion of a core makes it a thread as indicated below. Draw two turns of the thread below using the given specifications.

### Helical Screw Thread

- Draw one revolution of a single start right-handed screw thread ( $\frac{1}{2}$  the pitch) given
- Inside  $\varnothing$ : 40mm
- Outside  $\varnothing$ : 82mm
- Lead: 60mm
- Square Thread: 30mm

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