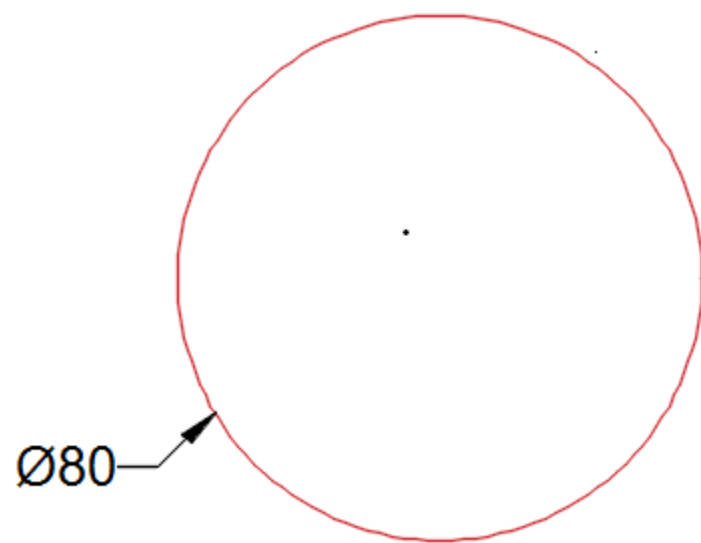


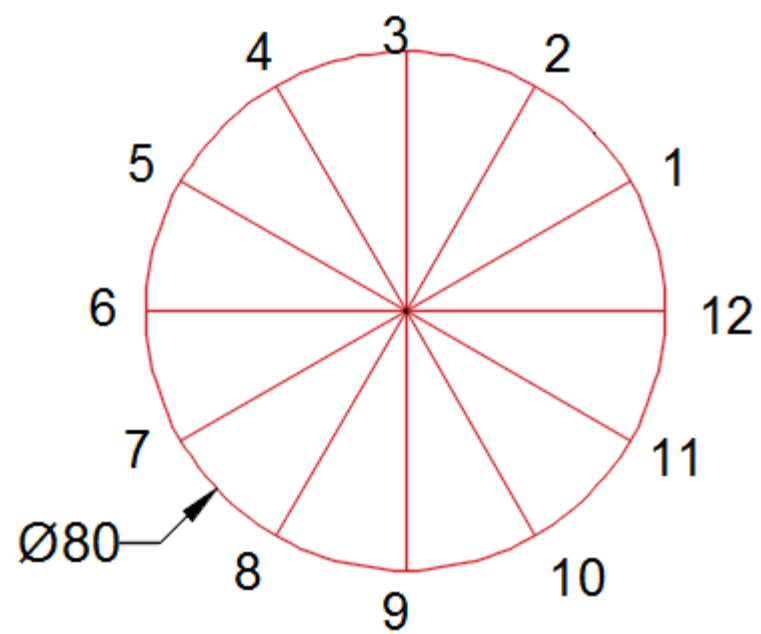
ARCHEMEDIAN SPIRAL

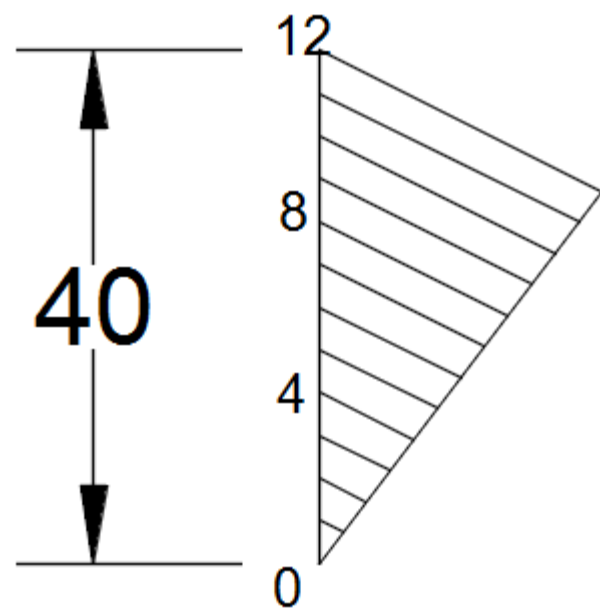
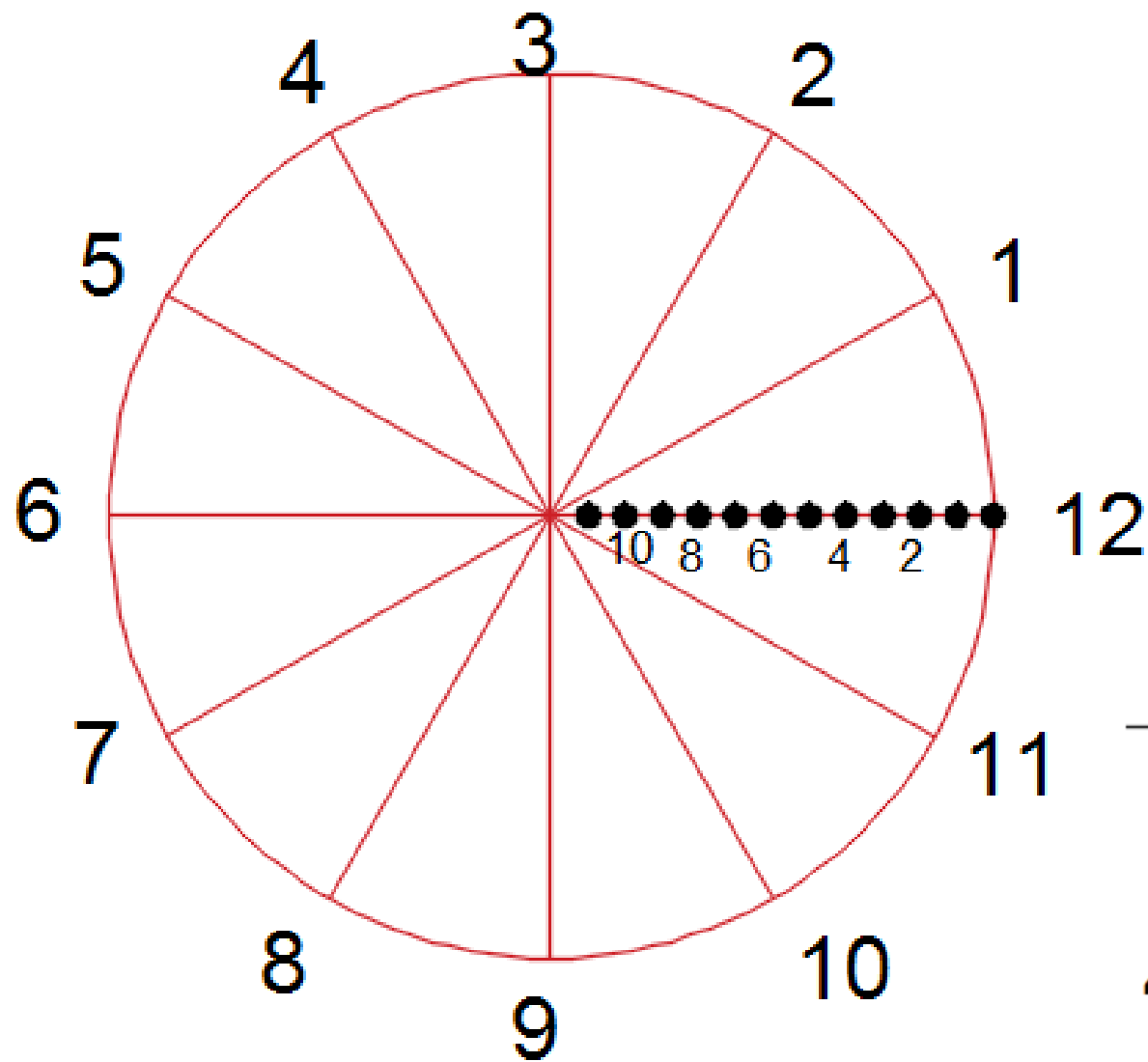
The curve traced out by a point moving in such a way that its movement towards or away from the pole is uniform with the increase of the vectorial angle from the starting line

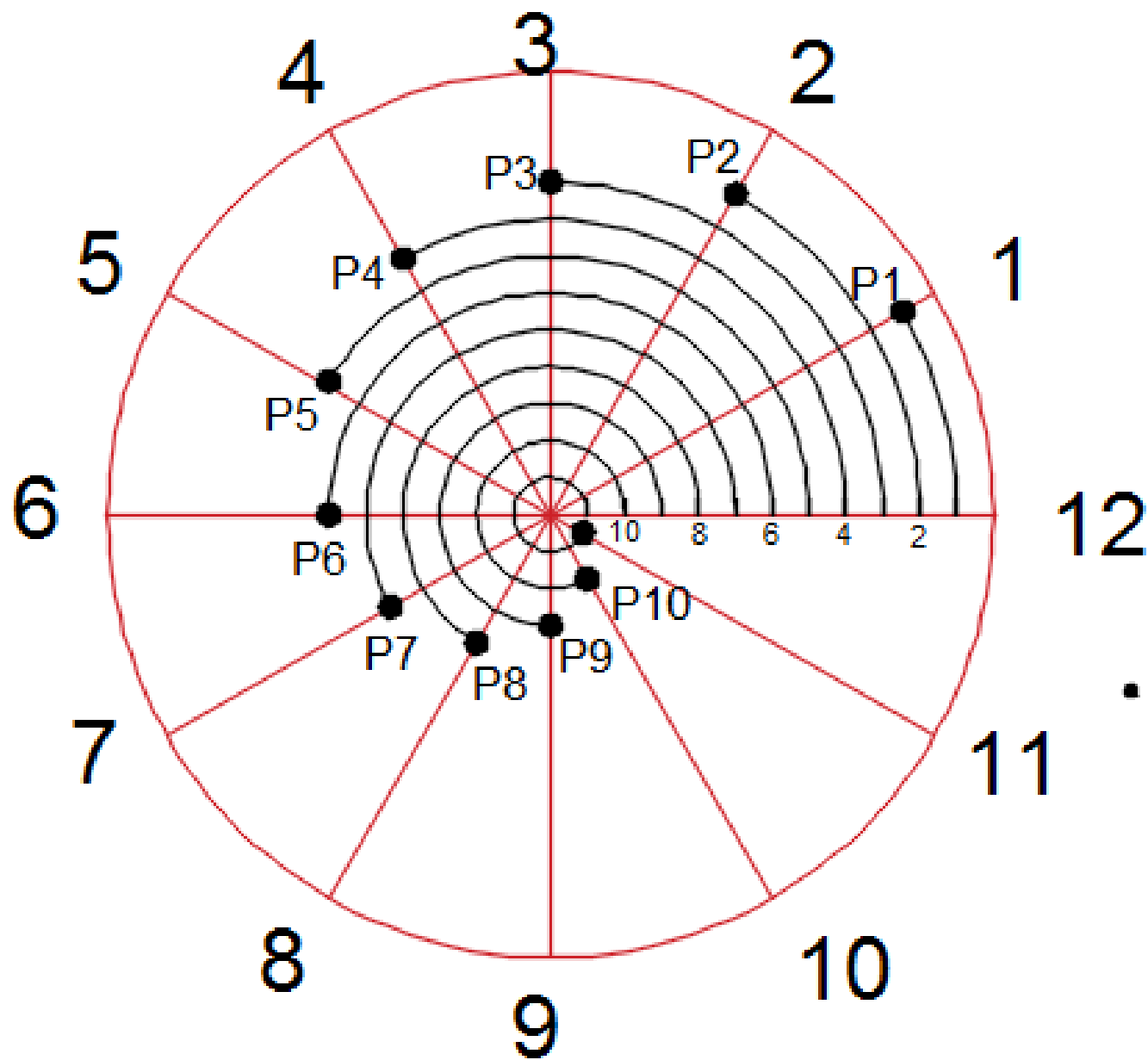
ARCHEMEDIAN SPIRAL

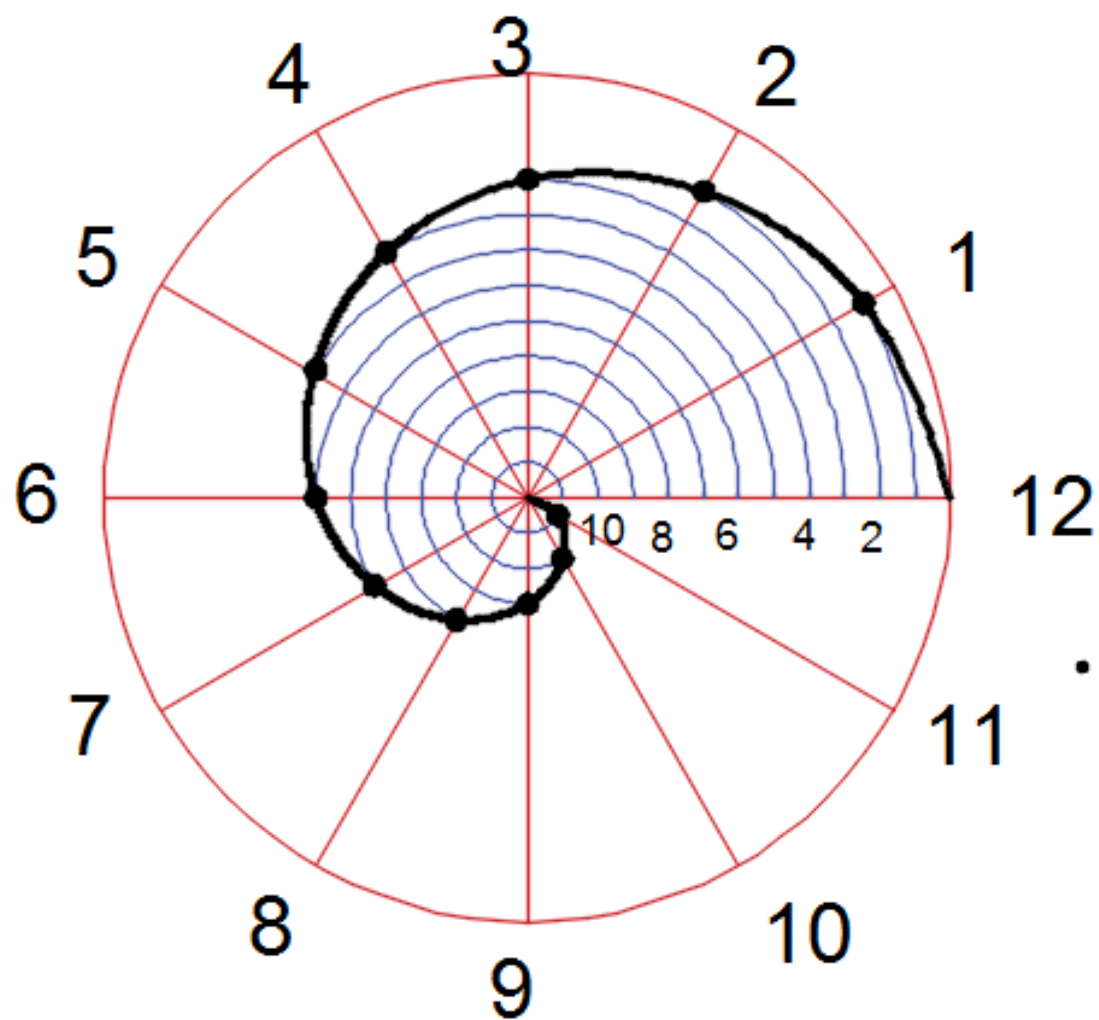
Construct an Archimedean spiral for one convolution given the radius R equal to 40mm



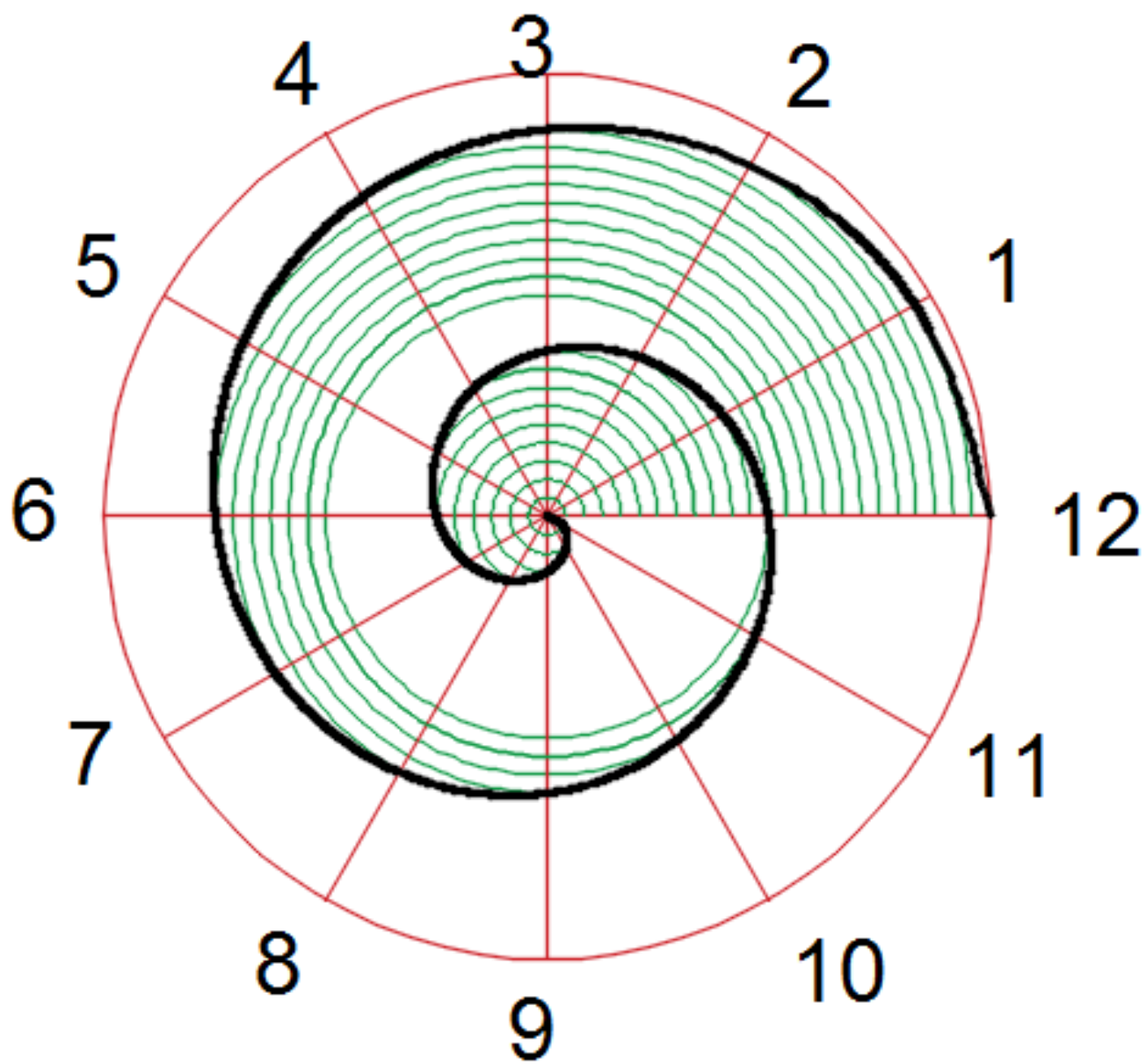






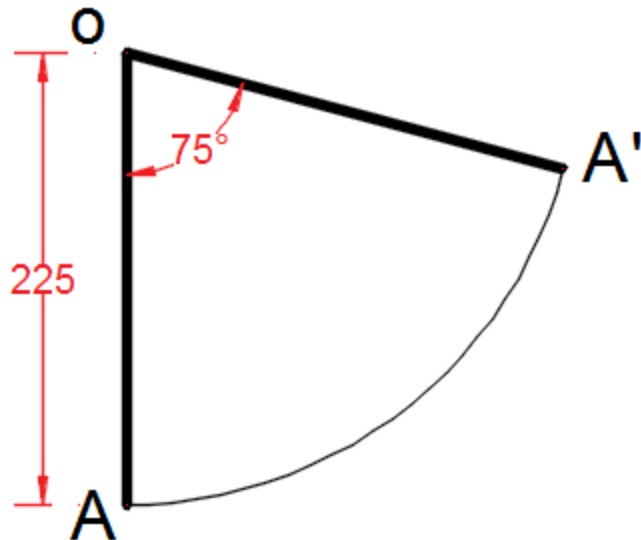


Constant of the Curve = $\frac{\text{Difference in length of any radius vectors}}{\text{Angle between the corresponding radius vector in radian.}}$

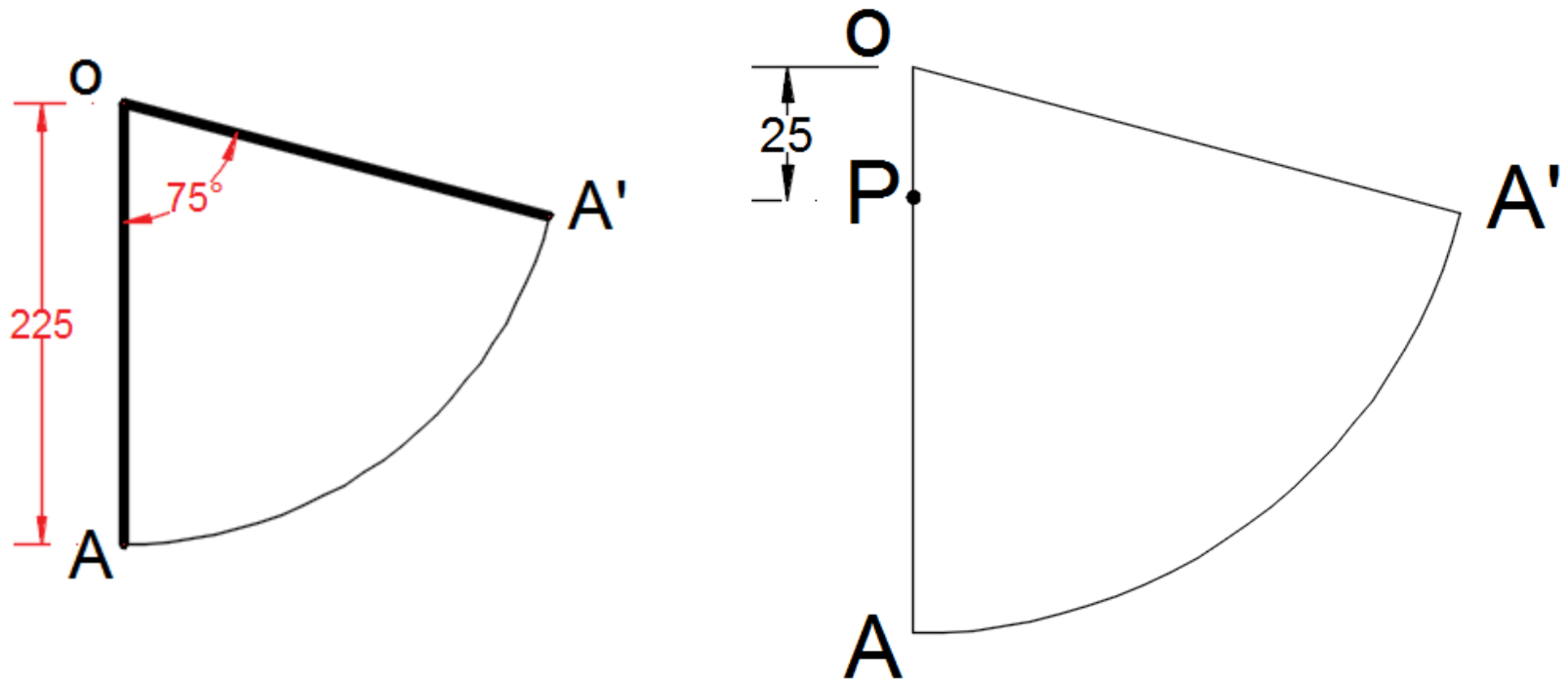


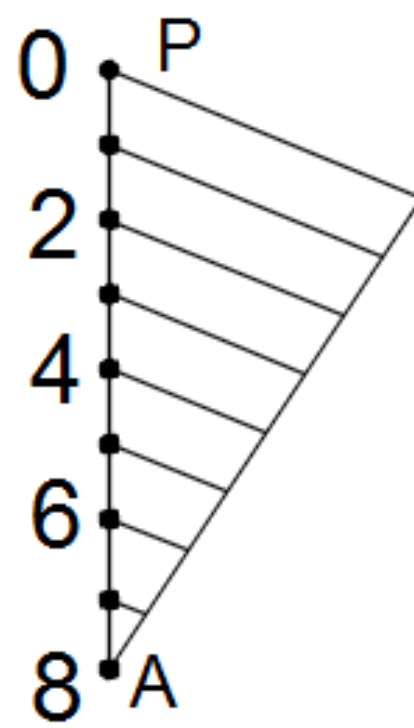
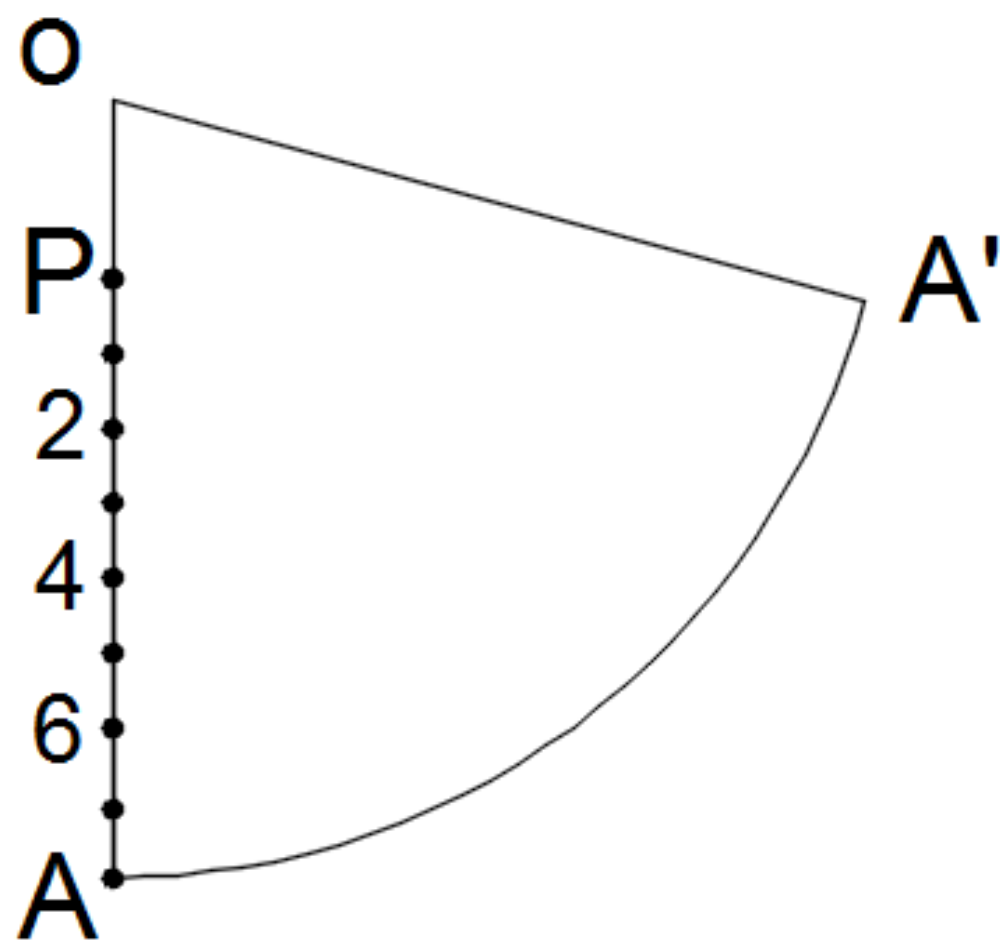
A link 225mm long swings on a pivot O from its vertical position of rest to the right through an angle of 75 degree and return to its initial position at uniform velocity. During that period a point P moving at uniform speed along the centre line of the link from a point at a distance of 25mm from O, reaches the end of the link. Draw the locus of point P

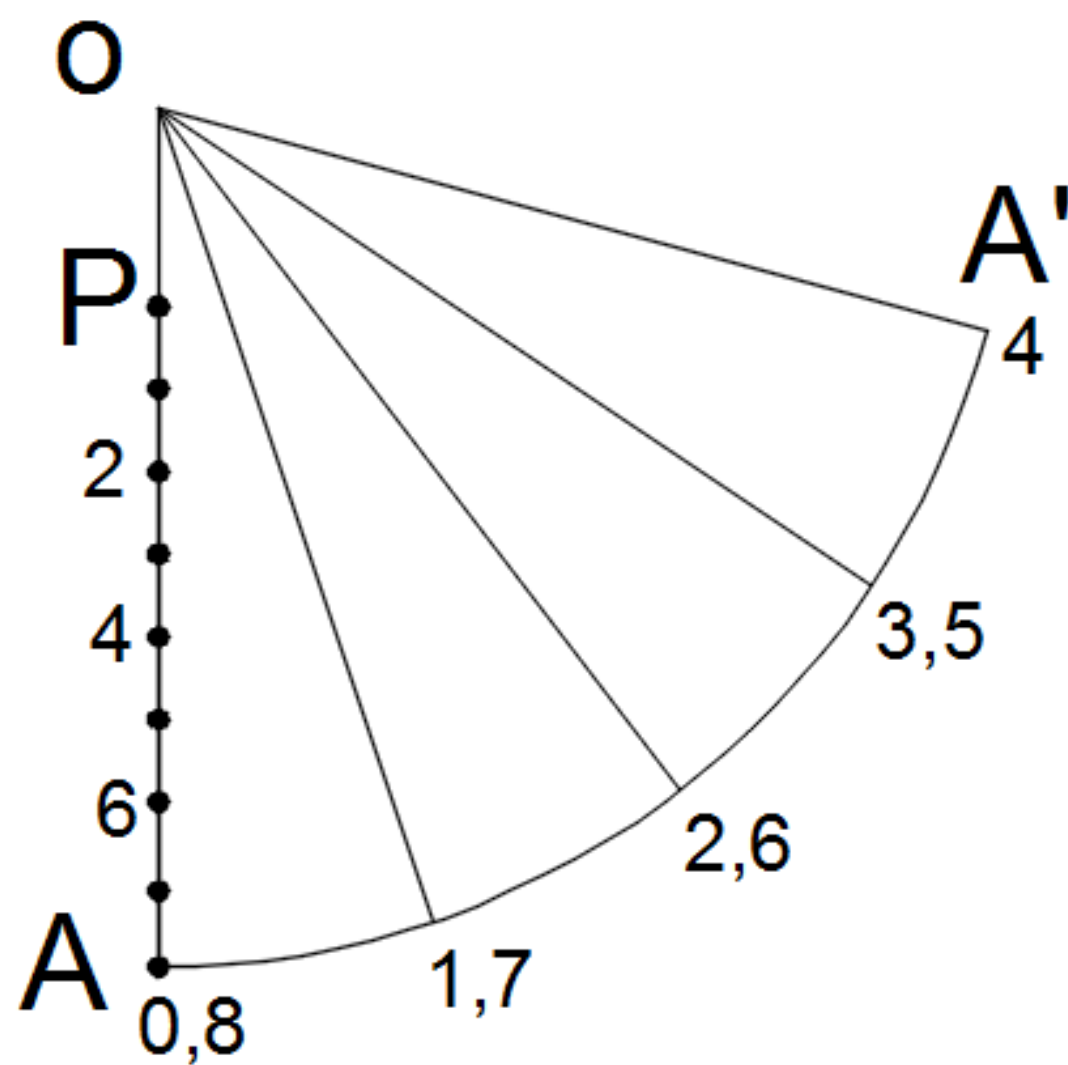
A link 225mm long swings on a pivot O from its vertical position of rest to the right through an angle of 75 degree and return to its initial position at uniform velocity. During that period a point P moving at uniform speed along the centre line of the link from a point at a distance of 25mm from O, reaches the end of the link. Draw the locus of point P

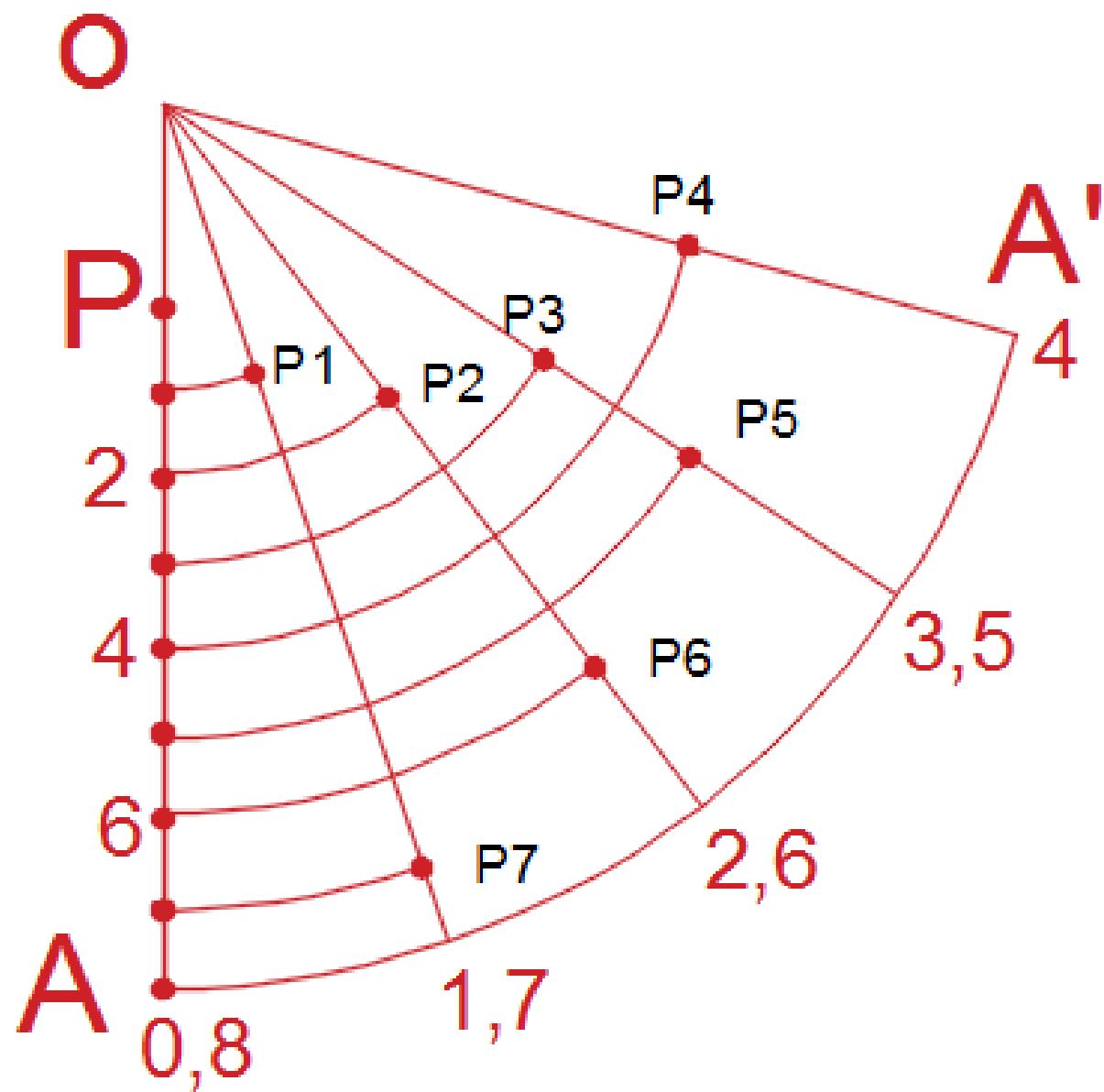


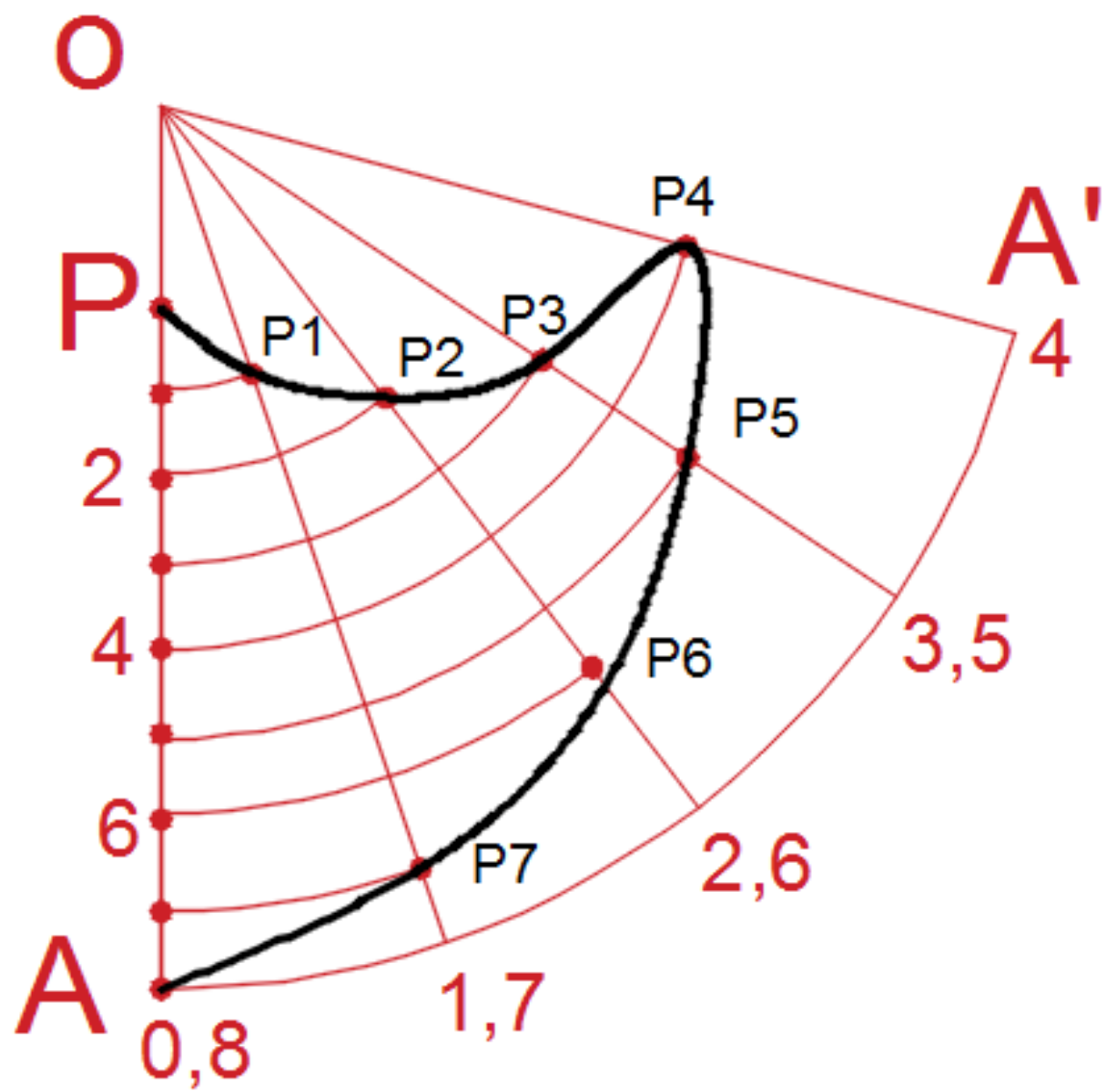
A link 225mm long swings on a pivot O from its vertical position of rest to the right through an angle of 75 degree and return to its initial position at uniform velocity. During that period a point P moving at uniform speed along the centre line of the link from a point at a distance of 25mm from O, reaches the end of the link. Draw the locus of point P











A straight line PQ of 60mm length revolves one complete revolution with uniform motion in anti-clock wise direction about hinged P. During this period an insect moves along the link from P to Q and Q to P with uniform linear motion. Draw the path of the insect and name the curve

A straight line PQ of 60mm length revolves one complete revolution with uniform motion in anti-clock wise direction about hinged P. During this period an insect moves along the link from P to Q and Q to P with uniform linear motion. Draw the path of the insect and name the curve

