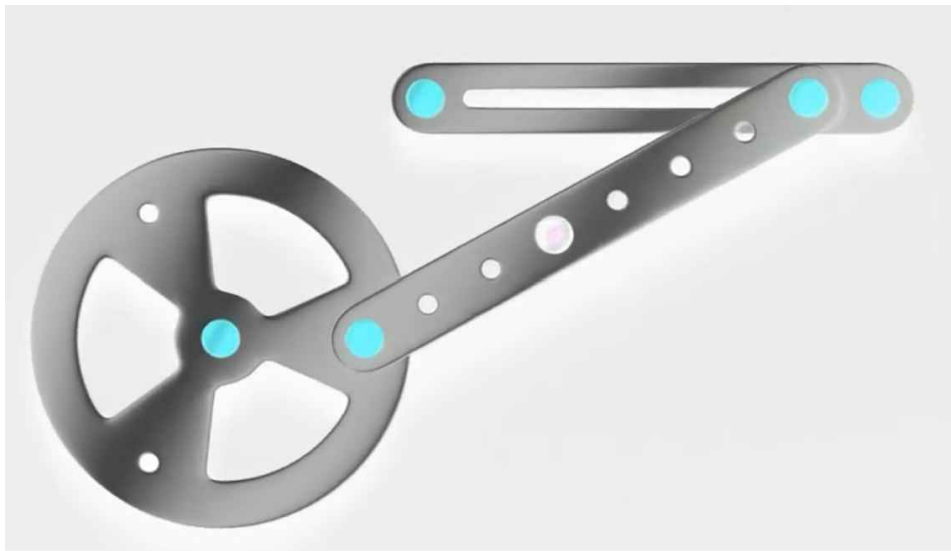
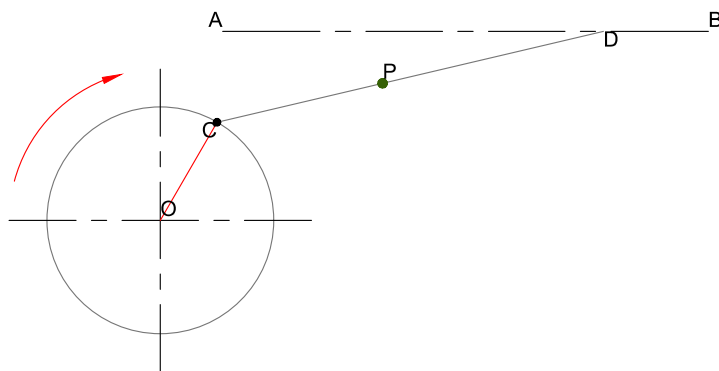


## Offset crank and piston mechanism.

This mechanism is made up of the following components:

- a) one crank OC;
- b) one linkage CD;
- c) one slider AB.

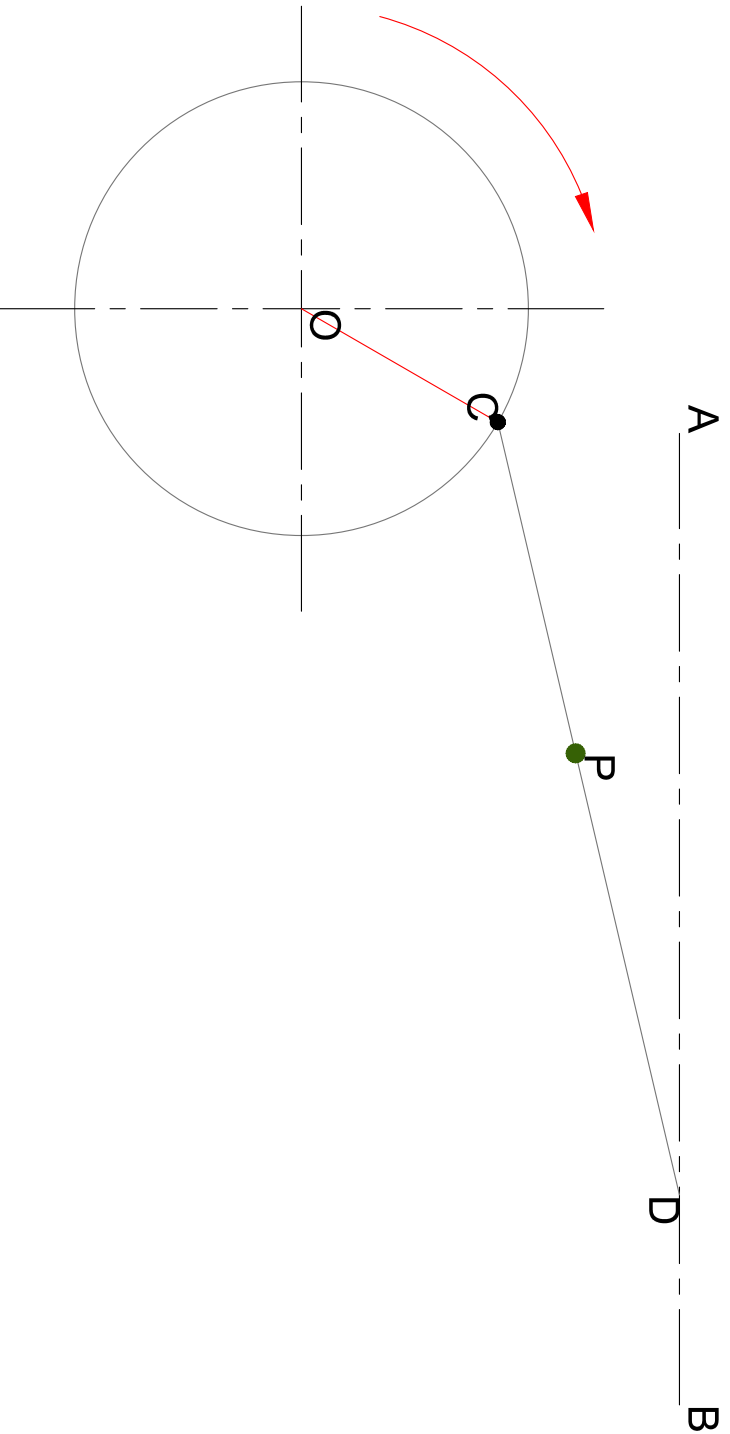
Plot the locus of point P.



To help you visualize the mechanical motion better you can visit:  
[https://youtu.be/dC3\\_wr2zxJQ](https://youtu.be/dC3_wr2zxJQ) for a video of the locus of this mechanism.

### Loci exercise offset crank and piston - STARTER SHEET

The diagram shows a crank mechanism OC which rotates around centre O and is attached to connecting rod CD at C. Rod CD slides along line AB at D. Find the locus of point 'P' on the connecting rod as crank OC makes one whole revolution.



### Loci exercise offset crank and piston - ANSWER

The diagram shows a crank mechanism OC which rotates around centre O and is attached to connecting rod CD at C. Rod CD slides along line AB at D. Find the locus of point 'P' on the connecting rod as crank OC makes one whole revolution.

