作業繳交注意事項：　1. 以12 pt大小的字撰寫在A4紙上。2. 建議以電腦繪圖軟體繪製運動簡圖(如word 內鍵之繪圖工具)，而非徒手繪製。

An obstacle is blocking the path of an object as shown in the figure below. (a)Synthesize a four-bar linkage using the four position points to move the object (b) If a fifth precision point is added, find the four-bar linkage. The suggest point is (0.799, 1.42) and a coupler angle of 59°. Synthesize for all five precision points. You may use two sets of four-position circle-point curves to find the five-position solution.

Note: (a) Draw your mechanism at all precision positions in the report. You must assure that the linkage you found is free of defects. (b) Upload a CAD simulation video that shows the motion of the linkage.

|  |  |  |  |
| --- | --- | --- | --- |
| No. | x | y | Coupler angle |
| P1 | 0 | 0 | 0° |
| P2 | 1 | 2 | 45° |
| P3 | 2 | 3 | 0° |
| P4 | 3 | 2 | 315° |

