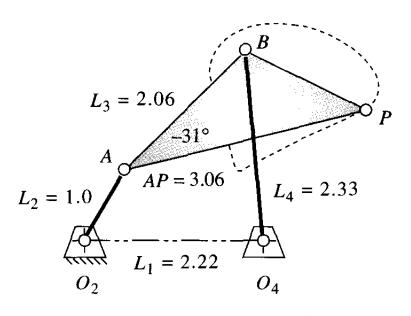
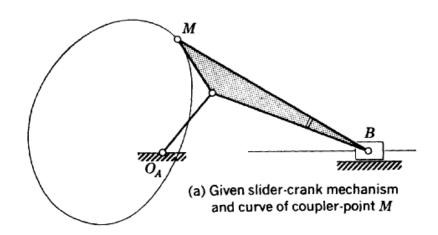
تكليف سرى پنجم: طراحي مكانيزمها موعد تحويل: ٩٥/٢/١٤

۱- مکانیزمهای هم اصل چهارمیلهای و شش میلهای مکانیزم زیر را بدست آورید.



M مکانیزم هم اصل مکانیزم لنگ لغزنده زیر را به دست آورید و ثابت کنید منحنی مسیر نقطه M از دو مکانیزم یکسان است.



6-2 Trace the locus of the coupler point M of the Roberts type of approximate straight-line mechanism shown for three cases: $\theta = 45$,° 60°, and 75°. Note the symmetry, $O_A A = AM = MB = BO_B$ and $AB = \frac{1}{2}O_A O_B$. Construct also the circles of foci, and discuss the intersections of the circles with the coupler curves.

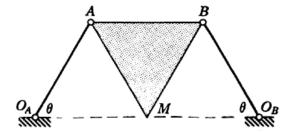


FIGURE P 6-2

6-3 Trace the locus of point M for the mechanism shown, in which the two links O_AA and BM constitute what is known as a Chebyshev dyad, namely, $O_AA = AB = AM$. Other dimensions are $O_BB = 0.4(O_AA)$, and $O_AO_B = 2(O_BB)$. Construct the circle of foci and the cognate linkages.

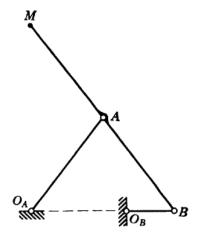


FIGURE P 6-3