



FIGURE P6-22

Problem 6-59

[†]6-59 Figure P6-22 shows a fourbar toggle clamp used to hold a workpiece in place by clamping it at D . $O_2A = 70$, $O_2C = 138$, $AB = 35$, $O_4B = 34$, $O_4D = 82$, and $O_2O_4 = 48$ mm. At the position shown, link 2 is at 104° . The linkage will toggle when link 2 reaches 90° .

[†] These problems are suited to solution using *Mathcad*, *Matlab*, or *TKSolver* equation solver programs.