



- †7-55 Figure P7-24 shows a drum-pedal mechanism.  $O_2A = 100$  mm at  $162^\circ$  and rotates to  $171^\circ$  at  $A'$ .  $O_2O_4 = 56$  mm,  $AB = 28$  mm,  $AP = 124$  mm, and  $O_4B = 64$  mm. The distance from  $O_4$  to  $F_{in}$  is 48 mm. If the input velocity  $V_{in}$  is a constant magnitude of 3 m/sec, find the output acceleration over the range of motion.