8-2)   
o = 1.8 rad/s    = (50turns)\*(2 rad/turn) = 314.2 rad      = 0.3 rad/s2

a)   
=ot + 1/2t2   
0.15t2 + 1.8t – 314.2 = 0   
t = + 26.9 s (throw away the negative solution)

b)   
f = o + t   
f = 1.8 + 0.3\*26.9 = 9.87 rad/s