HW 2.3

Monday, February 10, 2020 9:30 PM

a) To minimize his time, the cyclist should operate at max power which has a torzer of 665 in-Cos and a speed of 98.5 spen

666 in-165: 75.1>n.m

60. 7752 : 2 x. spend (rpm). 75.13 n.m. 60

98.5 rgm

b) Our how will tube 47.27 8000000 to word the top of the Lill.

Pour: F.d F. & 665: -165 = 53.2165

775W: 53.2165.508.6ft

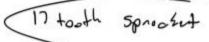
1: 53.2165.5082F

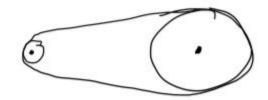
c) To produce the expected term the open of the rece wheel moves to be 155.2 rpm and the torque novels to be 453.17.17-150.

508fl , 16.93fr : 155.2 pm

C: r.sino.F: 19016. 12.5:n. 5in (110) (451.17: 13)







e) With a four teeth, the biber's speed will go about but his cadma will be histen than it would with the ideal sprobert.

f) It wouldn't. Even though there are deviations from the actual grade, their deviations are about and below the average grade so they saved and on on on trust the vor of the average grade.

Question 2:

a) (50/15)(70/20)(60/30)(30/60): 11,6.100-pm

1166.7npm

b) Shift D's effect on the ownell spend retion is 2:1 with & and 1:2 with & so :t carcels and has no impart on ownell opend.

Its function is unclaim other than to without the stross applied to it to transfer toager.

C) Y. J. 1.5:00, 100, 6, 26 : (20 n.m region)