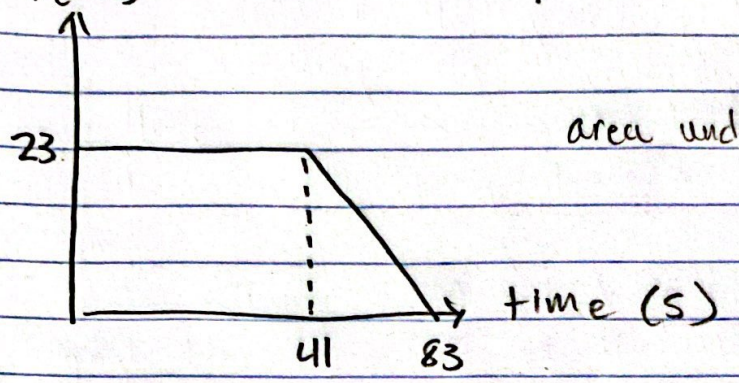
2-3 Kinematics

EF 141. Isaac Abella

problem.

A) at $t = 0$, speed = 23 m/s.



slope =

area under curve = distance traveled.

B) at $t = 41$ how far does Coach Kiffen travel from his starting point?

B - if $v = \frac{d}{t}$ then $d_1 = 23$ m/s

23 m/s · 41 m/s = 943 .

C) at $t = 83$ how far has he traveled from his starting point?

$\frac{1}{2}(83 - 41)(23)$

$= 483 + 943 = 1426$

D) avg velocity of coach from $t = 0$ to $t = 83$.

units included. $\frac{\Delta D}{\Delta T} = \frac{1878}{83} = 17.18$