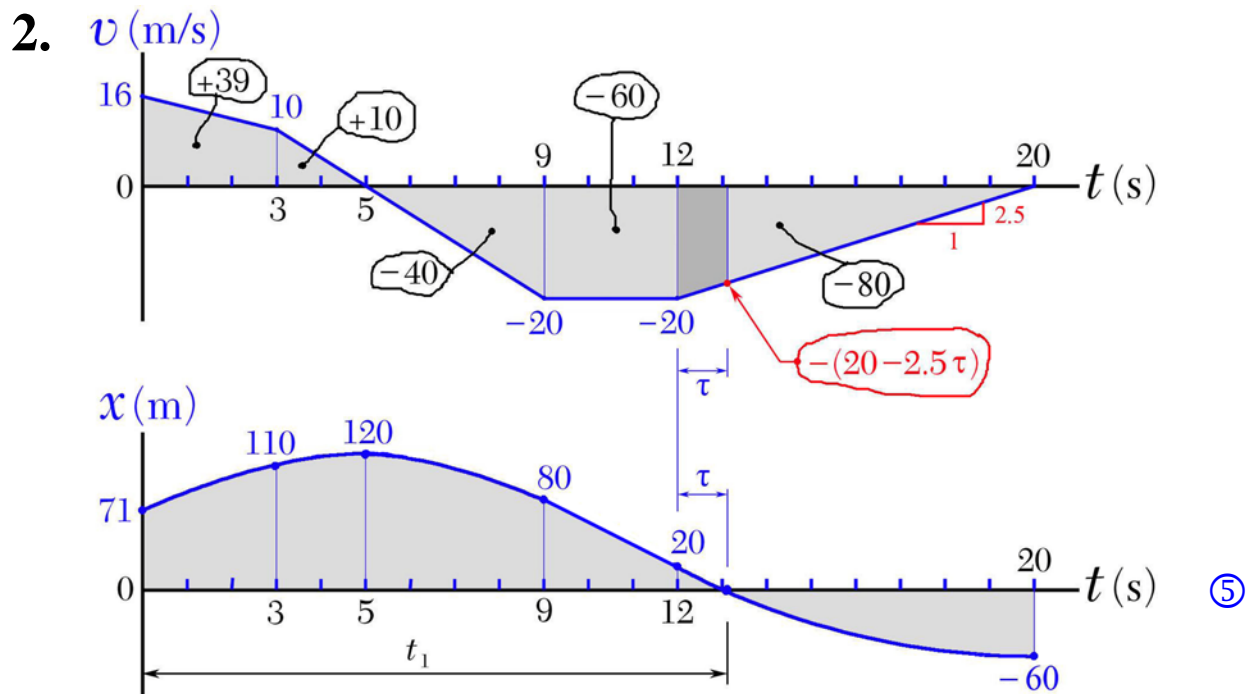
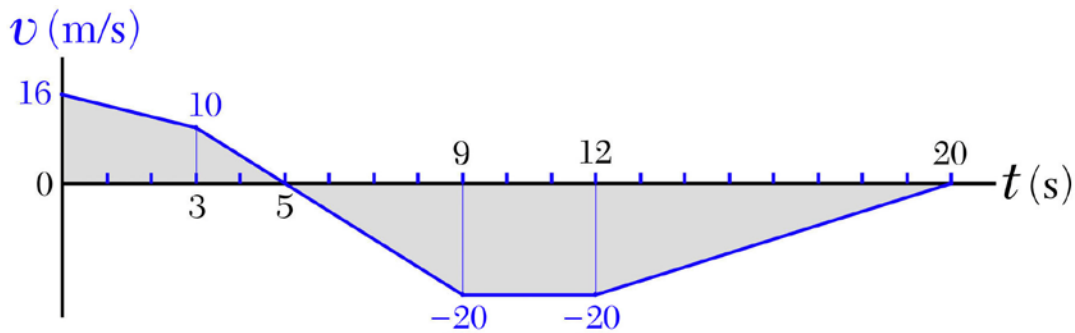


MEEG 2013 [Quiz #1.m04.092](#)

- Describe (a) kinematics, (b) kinetics. ②
- The velocity of a particle in rectilinear motion is shown. Knowing that $x_0 = 71$ m, (a) draw the position curve (x vs. t) for $0 \leq t \leq 20$ s, (b) determine the time t_1 at which the particle passes through the origin O . ⑧



$$0 - 20 = -(\tau / 2)[20 + (20 - 2.5\tau)] \quad \tau = 1.0718 \quad t_1 = 13.07 \text{ s} \quad \textcircled{3}$$