for all three: $v_0 = 10\ m/s$ at $t=0$.

Particle A: Graph in x vs. t

So, $v(t=7) = \frac{dx}{dt}(t=7)$ = slope at $t=7$

$$= \frac{-30-30}{8-2} = \underline{-10\ m/s}$$

Particle B: Graph in v vs. t

So read from graph $\underline{v(t=7) = -20\ m/s}$

Particle C: Graph in a vs. t

So: $v(t=7) = v_0 + \int_0^7 a\,dt$ $\qquad v_0 = 10\ m/s$

$$= v_0 + \text{area}(t=0 \to 7)$$

$$= 10 + \tfrac{1}{2}(4)(20) + 4(10) + \tfrac{1}{2}(1)(10) - \tfrac{1}{2}(2)(20)$$

$$= 10 + 40 + 40 + 5 - 20$$

$\therefore$ $\underline{v(t=7) = 75\ m/s}$