2) F: t

G: $a = 3\ m/s^2$ $\quad v_i = 8\ m/s$ $\quad v_f = 25\ m/s$

① E: $\frac{a}{1} = \frac{v_f - v_i}{t}$

$\frac{at}{a} = \frac{v_f - v_i}{a}$

$t = \frac{(v_f - v_i)}{a}$

$t = \frac{(25\ m/s - 8\ m/s)}{3\ m/s^2}$

$t = \frac{(17\ m/s)}{3\ m/s^2}$

$\boxed{t = 5.67\ s}$

② E: $a = \frac{v_f - v_i}{t}$

S: $\frac{3\ m/s^2}{1} = \frac{(25\ m/s - 8\ m/s)}{t}$

$\frac{(3\ m/s^2)(t)}{(3\ m/s^2)} = \frac{17\ m/s}{3\ m/s^2}$

$\boxed{t = 5.67\ s}$

3) F: t

G: $a = -4\ m/s^2$ $\quad v_i = 30\ m/s$ $\quad v_f = 0\ m/s$

① E: $\frac{a}{1} = \frac{(v_f - v_i)}{t}$

$\frac{at}{a} = \frac{(v_f - v_i)}{a}$

$t = \frac{(v_f - v_i)}{a}$

S: $t = \frac{(0\ m/s - 30\ m/s)}{-4\ m/s^2}$

$t = \frac{-30\ m/s}{-4\ m/s^2}$

$\boxed{t = 7.5\ s}$

② E: $a = \frac{v_f - v_i}{t}$

S: $\frac{-4\ m/s^2}{1} = \frac{(0\ m/s - 30\ m/s)}{t}$

$\frac{(-4\ m/s^2)(t)}{-4\ m/s} = \frac{-30\ m/s}{-4\ m/s}$

$\boxed{t = 7.5\ s}$