a) $V_0 = 25.0\ m/s$
$a = -9.8\ m/s^2$
$V_f = 0\ m/s$
$x_0 = 0\ m$

$$V_f^2 = V_0^2 + 2a(x - x_0)$$

$$(0\ m/s)^2 = (25.0\ m/s)^2 + 2(-9.8\ m/s^2)\,x$$

$$\boxed{x = 31.9\ m}$$

b) $V_f = V_0 + a \cdot t$

so $0\ m/s = (25\ m/s) + (-9.8\ m/s^2) \cdot t$ $\boxed{t = 2.55\ sec}$

c) By symmetry, $\boxed{t = 2.55\ sec}$

d) By symmetry, $\boxed{V_f = -25.0\ m/s}$