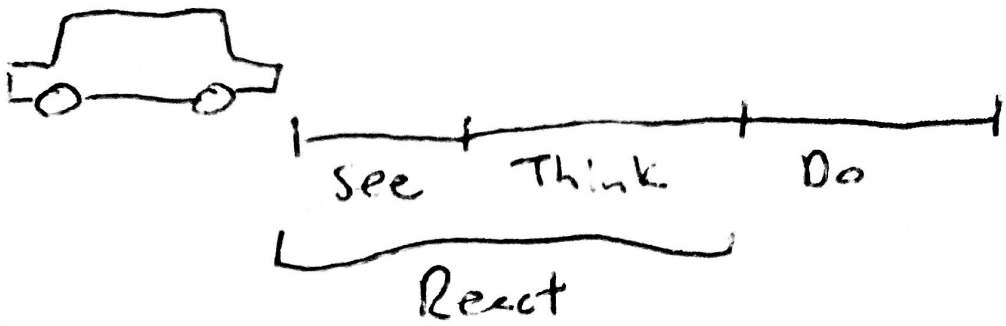

$a = -10$

$V_i = 61.6$

$V_f = 0$

$d = ?$

Find stopping distance.

$$d = \frac{V_f^2 - V_i^2}{2a} = 189.7$$

$d_{norm} = t_{norm} \times V_i + d = 235.9$

$d_{impaired} = t_{impaired} \times V_i + d = 374.5$