

M O C K E R Y

1) A) $x = -10, v_i = 5.8, a = -9.8 : v_f^2 = v_i^2 + 2ax$

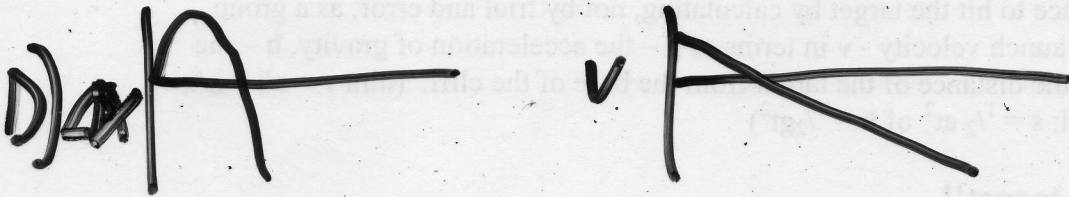
A - 15.2%

B) $v_f = v_i + at, v_f = -15.15, t = 2.14 s$

B 2.14 s

C) $v_i = 5.8, a = -9.8, v_f = 0 : v_f^2 = v_i^2 + 2ax$

C 1.72 m



D ???

2) A) $(34 + 12) \div 2 = 23 \text{ m/s}$

A: 23%

B) $v_i = 34, v_f = 12, t = 15 s : v_f = v_i + at$

B - 1.47%

C) ~~s =~~ $x = \frac{1}{2}(v_i + v_f)t$

C 345 m

D) $v_i = 12, v_f = 0, a = -1.46666 : v_f^2 = v_i^2 + 2ax$

D 49.1 m

3) A) $(0 + 84) \div 2 = 42 \text{ m/s}$

A 42%

B) $v_i = 84, v_f = 0, x = 410 : x = \frac{1}{2}(v_i + v_f)t$

B 9.76 s

C) $x = 410, v_i = 84, v_f = 0, a = -8.605 \text{ m/s}^2$

C 594%

$x = 205, v_i = 84, a = -8.605 \text{ m/s}^2$
 $v_f^2 = v_i^2 + 2ax$

D ???

