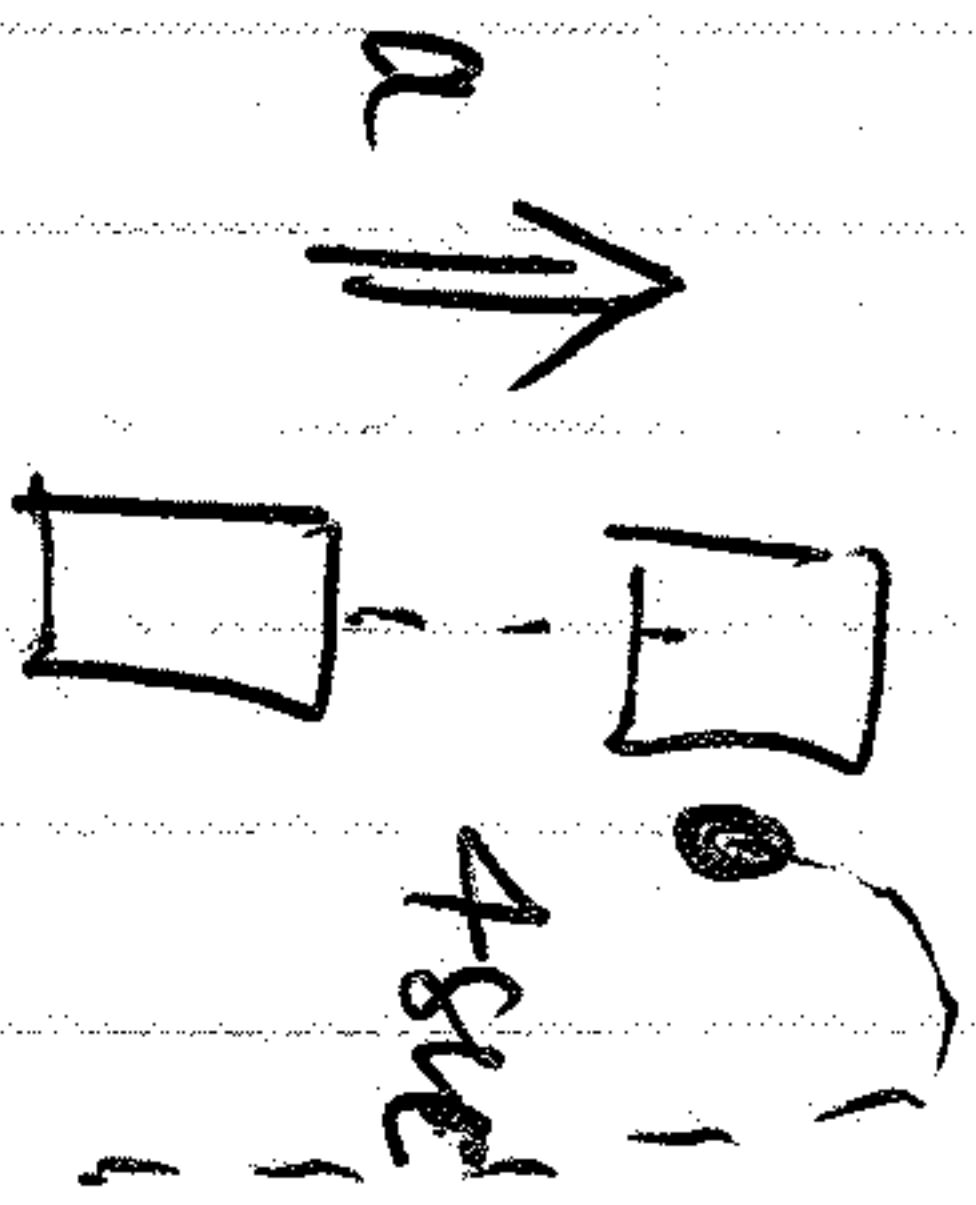


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Solution for Quiz 2.



initial velocity for bolt =  $4a$   
displacement =  $-8a$

$$\Rightarrow -8a = 4(a)(t) - \frac{1}{2}(10)(t)(t)$$

$$\Rightarrow 32a = 1800$$

$$a = \frac{1800}{32} = 5.5 \text{ m/s}^2$$