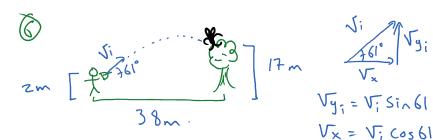
## Example of #6

February 16, 2017 8:24 AM



$$\frac{d_{x}=V_{x}\cdot t}{t=\frac{38}{V_{i}\cos 61}} = \frac{E_{e}}{V_{e}}$$

$$\frac{d = V_{i}t + \frac{1}{2}at^{2}}{15 = V_{i}Sin(61)t - 4.9t^{2}} = e^{2}$$

Vi 
$$(15-387m61) = (-4.9)(38)^2 \times (Vi^2)$$

$$\frac{V:^2(05^261)}{(5-387m61)} = -(9.9)(38)^2$$

$$\frac{(5-387m61)}{(5-387m61)} = (-6.9)(38)^2$$

$$V_{i}^{2} = \frac{-(4.9)(38)^{2}}{[\cos^{2}(61)][15-38 \, \text{Ten} \, 61]}$$

$$V_{i}^{2} = \sqrt{562}$$

$$V_{i} = 74 \, \text{m/s}$$

#8 dx = 12m