

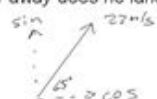
Horizontally Launched:

Luis is running to class (he's late again), but unfortunately he doesn't see the cliff that has been dug in front of the school (construction, right?). Luis is running 2.5 m/s when he runs horizontally off the 18 m tall cliff (that's a really tall cliff). How far away does he land from the edge of the cliff.

$$\begin{array}{l}
 \text{y-dir} \\
 a_y = -9.8 \text{ m/s}^2 = -g \\
 v_{iy} = 0 \text{ m/s} \\
 \Delta y = -18 \text{ m (balls)} \\
 t = \text{---} \\
 \Delta y = v_i t + \frac{1}{2} a t^2 \\
 -18 = 0 - 4.9 t^2 \\
 t = 1.92 \text{ sec}
 \end{array}
 \qquad
 \begin{array}{l}
 \text{x-dir} \\
 a_x = 0 \text{ m/s}^2 \\
 v_i = 2.5 \text{ m/s} = v_f \\
 S = \frac{D}{T} \\
 D = ST = 2.5(1.92) \\
 = 4.8 \text{ m}
 \end{array}$$

Ground to Ground:

After a rousing game of rock-em sock-em robots, Garrett is dancing on the roof of his house (crazy dude!). In his back yard is a trampoline. Garrett bounces off the trampoline at 65 degrees going 22 m/s. If he bounces from the ground and lands on the ground (pool actually), how far away does he land?



$$\begin{array}{l}
 \text{y-dir} \\
 v_{iy} = 22 \text{ s} \sin 65^\circ = 19.9 \text{ m/s} \\
 a_y = -g \\
 v_f = -19.9 \text{ m/s} \\
 \Delta y = 0 \text{ m} \\
 t = \text{---} \\
 v_f = v_i + at \\
 -19.9 = 19.9 - 9.8t \\
 -40 = -9.8t \\
 t = 4.1 \text{ sec}
 \end{array}
 \qquad
 \begin{array}{l}
 \text{x-dir} \\
 v_{ix} = \cos = 9.3 \text{ m/s} \\
 a_x = 0 \text{ m/s}^2 \\
 S = \frac{D}{T} \\
 D = ST \\
 = 9.3(4.1) \\
 = 38.13 \text{ m}
 \end{array}$$

How high?

So, how high in the air was Garrett at the top of his path?

$$\begin{array}{l}
 \text{y-dir} \\
 a = -g \\
 v_i = +19.9 \text{ m/s} \\
 v_f = 0 \text{ m/s} \\
 \Delta y = \text{---} \\
 v_f^2 = v_i^2 + 2a\Delta y \\
 0 = 19.9^2 - 19.6\Delta y \\
 \Delta y = 20.3 \text{ m}
 \end{array}$$

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Normal - an imaginary line 90o(perpendicular to a surface. Angle of Incidence - the angle between the incom- ing ray and the normal. Angle of Reflection - the angle between the outgo- ing ray and the normal.

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