

Horizontal Range

Using the diagram shown,
predict an expression for
the horizontal range R
(displacement along the
horizontal direction) of a
projectile:

a.) $\left(\frac{v_0 \sin \theta}{g}\right)$ b.) $\left(\frac{v_0^2 \sin^2 \theta}{2g}\right)$

c.) $\left(\frac{2v_0 \sin \theta}{g}\right)$ d.) $\left(\frac{v_0^2 \sin(2\theta)}{g}\right)$

e.) $\left(\frac{v_0^2 \sin \theta}{2g}\right)$

