Total Time of Flight of a Projectile

Recall that only the vertical component of motion is influenced by gravity, and that the vertical and horizontal components of motion can be considered independently of each other. If a projectile of mass m is launched with an initial speed v_0 (with components v_{0x} and v_{0y} along the horizontal and vertical directions, respectively), its total time of flight (assuming launch height = final height) is:

a.) $\left(\frac{2v_{0y}}{g}\right)$ b.) $\left(\frac{v_{0y}}{g}\right)$ c.) $\left(\frac{2v_0}{g}\right)$ d.) $\left(\frac{mv_{0y}}{g}\right)$ e.) $\left(\frac{v_0}{g}\right)$