Total Time of Flight for an Object Shot Straight Upwards

What is the total time of flight for an object of mass m shot straight upwards at an initial speed v_0 ?

a.)
$$\left(\frac{mv_0}{g}\right)$$

b.)
$$\left(\frac{v_0}{g}\right)$$

c.)
$$\left(\frac{2v_0}{g}\right)$$

$$d.)$$
 mgv_0

e.)
$$\left(\frac{v_0 g}{m}\right)$$