A ball is initially thrown at a speed v at an angle of θ to the horizontal. At the
top of its motion (when the ball is moving horizontally), it suddenly explodes
into two pieces of equal mass. One piece lands back at the starting point, and
the other piece lands on the ground at the same time. How far from the
starting point did the other piece land?

Vy 
$$\frac{\sqrt{2}}{\sqrt{2}}$$
  $\frac{\sqrt{2}}{\sqrt{2}}$   $\frac{\sqrt{2}}{\sqrt$