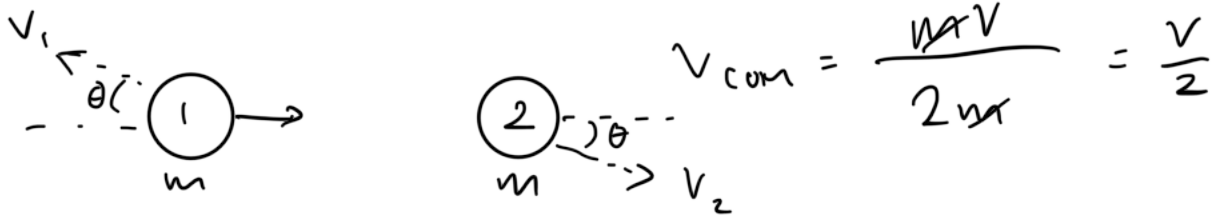
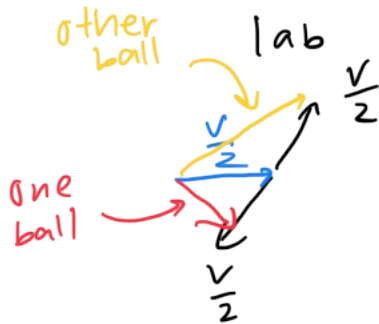
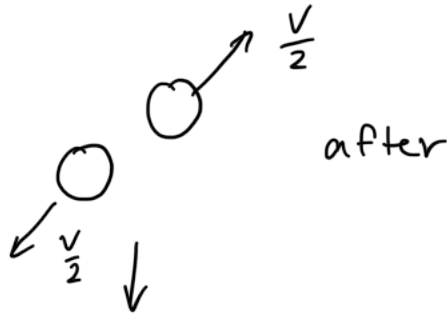
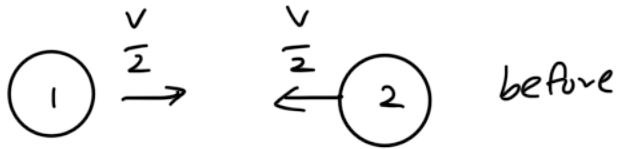


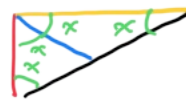
- Two balls of equal mass collide with one another, with one initially at rest. The balls scatter in different directions after the collision. Find the angle between the velocities of the balls after the collision.



↓  
reference



add back com  $\frac{v}{2}$



$$4x = 180$$

$$x = 45^\circ$$

$$2x = \boxed{90^\circ}$$