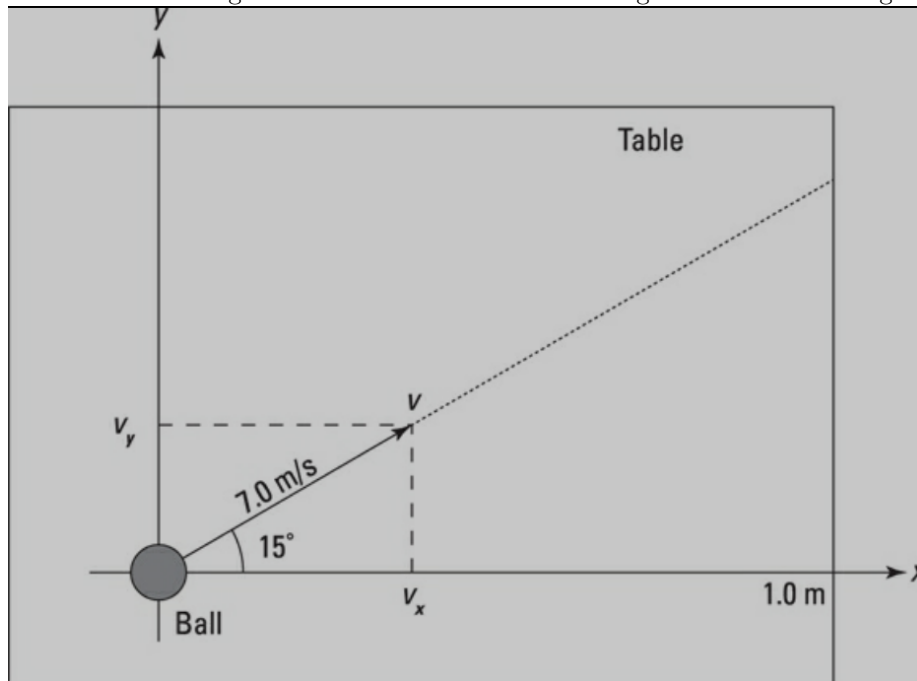# Ball Rolling

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1 Problem

Suppose you know that a ball is rolling on a flat table at 15° from a direction parallel to the bottom edge with a speed of 7.0 meters/second. You may want to find out how long the ball will take to roll off the edge 1.0 meter to the right.

Holzner, Steven. Physics I For Dummies (For Dummies (Math & Science)) (p. 58). Wiley. Kindle Edition.

2 Solution

$$\cos(15) = \frac{x}{7m/s}$$

$$x = 6.76$$

$$s = \bar{v}t$$

$$\frac{1}{6.76} = t$$