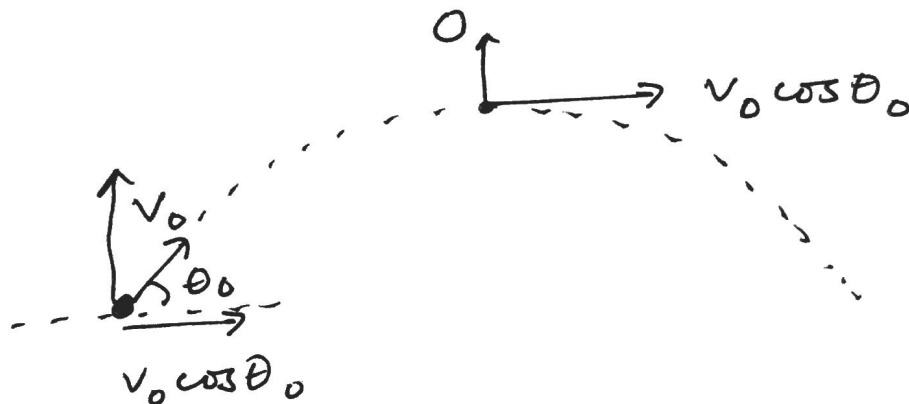


Example 1.

A projectile's launch speed is five times its speed at maximum height. Find launch angle θ_0 .



launch speed = 5 \times speed at max height

$$v_0 = 5 \times v_0 \cos \theta_0$$

$$\cos \theta_0 = \frac{1}{5}$$

$$\theta_0 = \boxed{}^\circ$$

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