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*projectile motion practice problems with solutions physexams* May 23 2024 solution this is a projectile motion problem a type of motion in which without air resistance we have a  $x_0$  and a  $y_0$  the kinematic equations for projectile are  $x = v_0 \cos \theta t$   $y = v_0 \sin \theta t - \frac{1}{2}gt^2$   $v_x = v_0 \cos \theta$   $v_y = v_0 \sin \theta - gt$

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the highest point the peak the vertical velocity is 0 m/s

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projectile motion occurs when a force is applied at the beginning of the trajectory for the launch  
after this the projectile is subject only to the gravity

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