

Projectile Practice Problem #611

- 61) A soccer ball is kicked off the field at an angle of 30° above the horizontal. The ball is kicked with an initial speed of 20 m/s . The ball is kicked from a height of 1 m above the ground. The ball is kicked from a height of 1 m above the ground. The ball is kicked from a height of 1 m above the ground.

a) Write the equations for the ball's path in the x and y directions.

$$x = v_0 \cos(\theta) t$$

$$y = v_0 \sin(\theta) t - \frac{1}{2} g t^2$$



b) How long does it take for the ball to reach its maximum height? (in seconds)

c) At what time does the ball reach its maximum height? (in seconds)

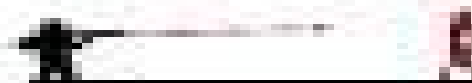
d) Does the ball reach its maximum height? (in seconds)

- 62) A soccer ball is kicked off the field at an angle of 30° above the horizontal. The ball is kicked with an initial speed of 20 m/s . The ball is kicked from a height of 1 m above the ground. The ball is kicked from a height of 1 m above the ground. The ball is kicked from a height of 1 m above the ground.

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b) How long does it take for the ball to reach its maximum height? (in seconds)

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d) Does the ball reach its maximum height? (in seconds)

The ball is kicked from a height of 1 m above the ground. The ball is kicked from a height of 1 m above the ground. The ball is kicked from a height of 1 m above the ground.

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Lei Huang



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