

Projectile Practice #2

- 1) A soccer ball is kicked from the ground at an angle of 30° to the horizontal. The ball is in the air for 4 seconds before hitting the ground. How far did the ball travel?

a) Write the equations for the path of the ball.

$$\begin{aligned}
 x &= 16t^2 \cos 30^\circ \\
 y &= 16t^2 \sin 30^\circ - 16t^2
 \end{aligned}$$



- b) How far did the ball travel? (The ball is in the air for 4 seconds before hitting the ground.)

- c) Is the ball in the air for 4 seconds? (The ball is in the air for 4 seconds before hitting the ground.)

- d) Does the ball travel 240 ft? (The ball travels 240 ft.)

- 2) A soccer ball is kicked from the ground at an angle of 30° to the horizontal. The ball is in the air for 4 seconds before hitting the ground. How far did the ball travel?

a) Write the equations for the path of the ball.

$$\begin{aligned}
 x &= 16t^2 \cos 30^\circ \\
 y &= 16t^2 \sin 30^\circ - 16t^2
 \end{aligned}$$



- b) How far did the ball travel? (The ball is in the air for 4 seconds before hitting the ground.)

- c) Is the ball in the air for 4 seconds? (The ball is in the air for 4 seconds before hitting the ground.)

- d) Does the ball travel 240 ft? (The ball travels 240 ft.)

The ball is in the air for 4 seconds. The ball is in the air for 4 seconds before hitting the ground. The ball is in the air for 4 seconds before hitting the ground.

The ball is in the air for 4 seconds. The ball is in the air for 4 seconds before hitting the ground. The ball is in the air for 4 seconds before hitting the ground.

Precalculus Hs Mathematics Unit 10 Lesson 01

Marco Casella



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