

Projectile Practice **HW1**

- 18) A baseball is pitched straight to the short stop as shown below. The batter hits the ball straight up. The batter is 20 m away from the pitcher, and the ball is hit with an initial velocity of 40 m/s and an angle of 30° .

a) Write the equations to model the path of the ball.

$$x(t) = 40 \cos 30^\circ t$$

$$y(t) = 40 \sin 30^\circ t - 4.9 t^2$$



- b) How high does the ball go? How long is it in the air? How far does it travel?
- It is 1.25 m above the ground. It is 2.04 seconds in the air. It travels 34.64 meters.

- c) At what angle does the ball hit the ground? How far does it travel?
- It is 30 degrees and it travels 34.64 m.

- d) Does the batter hit the ball? Explain.
- Yes. The batter is only 20 meters away. The ball is 1.25 m above the ground when it is 20 m away.

- 19) A ball is hit at a 45 degree angle with an initial velocity of 40 m/s. The ball is hit 20 m away from the pitcher. The ball is hit with an initial velocity of 40 m/s and an angle of 45° .

a) Write the equations to model the path of the ball.

$$x(t) = 40 \cos 45^\circ t$$

$$y(t) = 40 \sin 45^\circ t - 4.9 t^2$$



- b) How high does the ball go? How long is it in the air? How far does it travel?
- It is 1.25 m above the ground. It is 2.04 seconds in the air. It travels 34.64 meters.

- c) What is the angle of the ball when it hits the ground? How far does it travel?
- It is 45 degrees and it travels 34.64 m.

- d) Is the ball hit? Explain.
- Yes. The ball is 1.25 m above the ground when it is 20 m away from the pitcher.

The ball is 1.25 m above the ground when it is 20 m away from the pitcher. The ball is hit with an initial velocity of 40 m/s and an angle of 45° .

It is 1.25 m above the ground when it is 20 m away from the pitcher. The ball is hit with an initial velocity of 40 m/s and an angle of 45° .

Precalculus Hs Mathematics Unit 10

Lauren Gardner



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