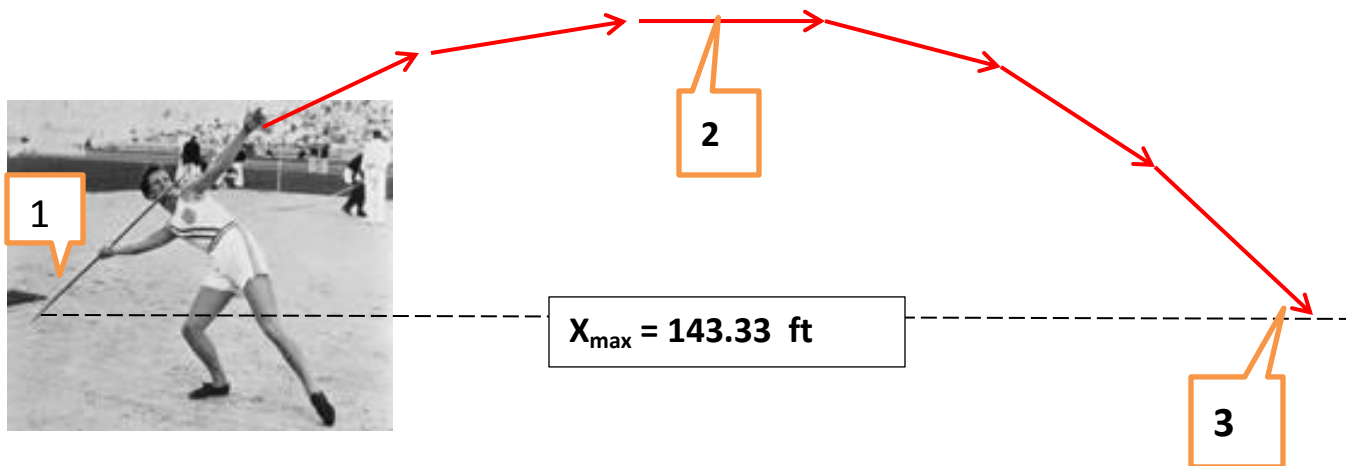


PROJECTILES

Unit 9 Dr John P. Cise, Professor of Physics, Austin Community College, 1212 Rio Grande

St., Austin Tx 78701 jpcise@austincc.edu & NYTimes June 29, 2011 by Don Van Natta Jr.



Babe Didrikson Zaharias's Legacy Fades



INTRODUCTION: Babe Didrikson won a Gold medal for Javelin in the 1932 Olympics. She won with a throw of 143.33 feet as shown above. Note in the graphic above she threw for maximum distance knowing the maximum distance is achieved when the angle is 45° to the horizontal. **QUESTIONS:** (a) Find the speed (in ft/s & mph) she threw the Javelin to win Gold in 1932? (b) What was the time it took to fly 143.33 ft.? (c) Find the vertical and horizontal components of velocity at points 1, 2 & 3 above? **HINTS:** Break solution into horizontal and vertical parts so as to keep the vertical acceleration away from the constant velocity horizontally. 88 ft/s = 60 mph. **ANSWERS** (a) 67.45 ft/s or ~46 mph (b) ~3 s (c) _____.

Didrikson pitching for New Orleans of the Southern Association in 1934.

“Every time I tell her story, people have trouble believing everything she was able to do during her life,” said Beaumont’s mayor pro tem, W. L. Pate Jr., the president of the Babe Didrikson Zaharias Foundation. “And she did so much in so little time.” [Didrikson died of cancer](#) at 45 on Sept. 27, 1956, and she was buried here, at Forest Lawn Cemetery. On a memorial near her burial site, there is the **old Grantland Rice line about how winning and losing are not what matters but rather how one played the game.**

But if her name may mean increasingly little to a young generation of sports fans, **Didrikson, who was born 100 years ago, was perhaps America’s greatest all-around athlete, male or female.**

No athlete excelled at more sports and games than Didrikson. **She was an all-American basketball player, a two-time Olympic track and field gold medalist (Javelin) and a golf champion who won 82 tournaments, including an astonishing 14 in a row.**

