PROBLEM OF THE WEEK #Z

97 ON PAGE 512

PROTECTIVE FLIGHT: IF A PROJECTIVE IS FIRED W/ INITIAL

VELOCITY OF V FEET PER SELOND AT AN ANGLE & W/

THE HORIZONTAL, IT WILL FOLLOW A PARABOLIC PATH

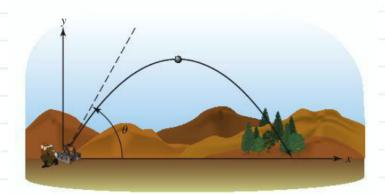
DESCRIBED BY

V3(COSO)2

PROJECTILE (USE [0, 20,000, 5000] BY [0, 4000, 1000] WINDOW - MAKE SIRE YOU ARE IN DEGREES).

a) FIND THE MAXIMUM HEIGHT OF THE FLIGHT.

- BELOW) FIND THE TOTAL HURIZONTAL DISTANCE
 TRAVELED BY THE PROJECTILE
- C) ASSUME THAT THE PROJECTICE IS FIRED FROM THE BASE OF A HILL WHOSE SLOPE IS MODELED BY Y= .ZX. APPROXIMATE THE TOTAL HORIZOUTAL DISTANCE TRAVELED BY THE PROJECTILE.



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