

Kailey estimates the distance to the pin to be 220 yds. Her Swing will produce an initial velocity of 160 ft/s at an angle of 28°. Will the ball land in the hole? X+ = litros D $y_t = \frac{1}{a}at^2 + Mtsn\theta + S_0$ 220 yds. Xt= 160tcos 28° = 660 ft $y_t = \frac{1}{2}(-32)t^2 + (60tsm 28^{\circ} + 0)$ $y_t = -16t^2 + 160tsm 28^{\circ}$ 660 = 160 toos 28° 160 cos 28° 160 cos 28° E-16(47) + 160(47) 5m 280 2-0.39

$$\frac{6000 \text{ m/s}}{6 \text{ m}}$$
How far from the enemy tank must be launch
to hit the ninja?
 $X_t = 6000 \text{ t cos } 32^{\circ}$
 $y_{t=} - 4.9t^{\circ} + 6000 \text{ t sin } 32^{\circ} + 6$
 $5_{=} - 4.9t^{\circ} + 6000 \text{ t sin } 32^{\circ} + \frac{6}{5}$
 $0 = -4.9t^{\circ} + 6000 \text{ t sin } 32^{\circ} + \frac{6}{5}$
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 $1 = -6000 \text{ sin } 32^{\circ} \pm \sqrt{(6000 \text{ sin } 32^{\circ})^{2}} - 4(-4.9)(1)}$
 $t = -0.000314$
 $t = 698.88 \text{ soc}$
 $X_t = 6900((.48.85) \cos 32^{\circ}$
 $X = 3,301,689 \text{ m}$
 $= 3,301.7 \text{ Km}$

