

49 The parametric equations which model the flight of the ball thrown at a 35° angle are given by $x_1 = 66 \cos 35^\circ(t)$, $y_1 = 66 \sin 35^\circ(t) - 16t^2$ for $0 \leq t \leq 4$. This ball travels about 128 feet. See *Figure 49a*.

The parametric equations which model the flight of the ball thrown at a 50° angle are given by

$x_2 = 66 \cos 50^\circ(t)$, $y_2 = 66 \sin 50^\circ(t) - 16t^2$ for $0 \leq t \leq 4$. This ball travels about 134 feet. See *Figure 49b*.

$[0, 150, 10]$ by $[-10, 50, 10]$

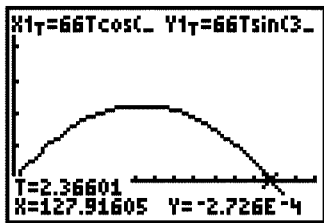


Figure 49a

$[0, 150, 10]$ by $[-10, 50, 10]$

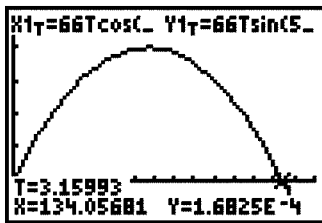


Figure 49b