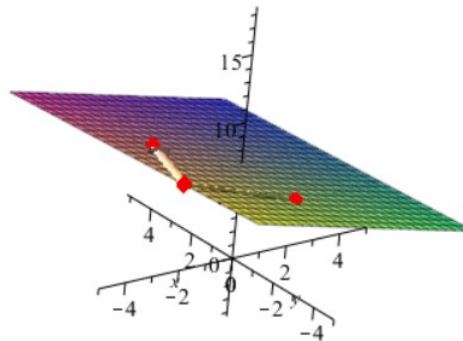


```

> with(plots):
> pts := pointplot3d([[1, 3, 2], [3, -1, 6], [5, 2, 0]], axes = normal, symbol = soliddiamond, symbolsize = 30, color = red):
> display(pts, v1, v2, P)

```

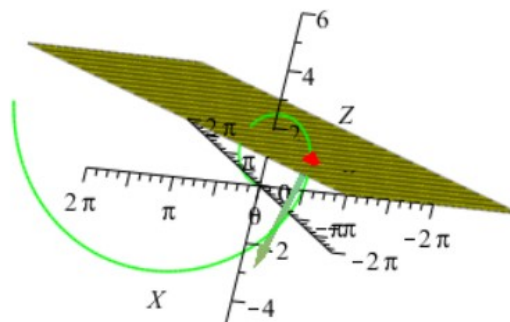


```

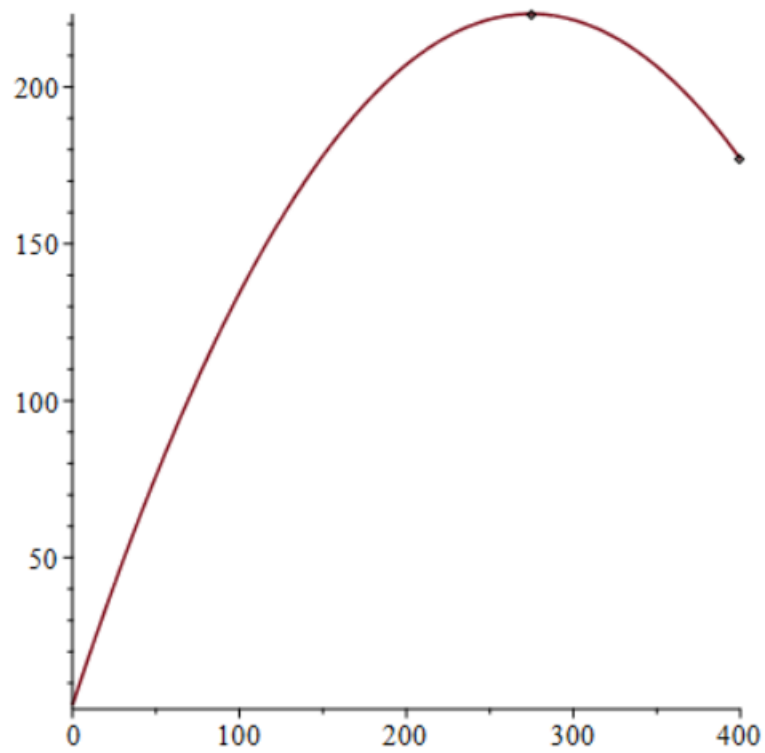
> v1 := arrow(<5, 2, 0>, <3, -1, 6>, difference):
> v2 := arrow(<5, 2, 0>, <1, 3, 2>, difference):
> P := plot3d((-6*x - 10*y + 50)/7, x=-5..5, y=-5..5):
> THE PLANE DOES NOT CONTAIN THE ORIGIN

```

The plane does not contain the origin.



Demonstrated is the Normal Plane perpendicular to the curve at $t = \pi$. The red dot is the point on the curve at $t = \pi$.



The graph demonstrates that the ball should clear the fence. When $x(t) = 400$ ft, y is around 170 ft, much higher than the 10 ft fence 400 ft from the home plate.