

```
In[31]:= Remove["Global`*"]
```

A Projectile is fired with initial speed v_0 and at an angle a with respect to the horizontal. Its range is given by R . Plot R as a function of a

```
v0 = 30; (* Initial speed m/sec*)
```

```
g = 9.8; (* Acceleration due to gravity m/sec^2*)
```

```
In[34]:= R = 2 v0^2 Cos[a] Sin[a] / g (* Range of projectile*)
```

```
Out[34]= 183.673 Cos[a] Sin[a]
```

```
In[50]:= amin = 0
```

```
amax = Pi / 2;
```

```
Plot[R, {a, amin, amax}, PlotLegends -> "Range", AxesLabel -> {a, Ra}]
```

```
Out[50]= 0
```

