```
In [34]:
    from IPython.display import Image
    from scipy.interpolate import interpld
    import numpy as np
    import matplotlib.pyplot as plt
    from scipy import interpolate

In [52]:

def getvals(x,y):
    f = interpld(x, y)
        xnew = np.linspace(0, x[1], num=41, endpoint=True)
        plt.grid()
        plt.plot(x, y, 'o', xnew, f(xnew))
        M = (y[1] - y[0])/(x[1] - x[0])
        print("Gradient = " + str(M))
```

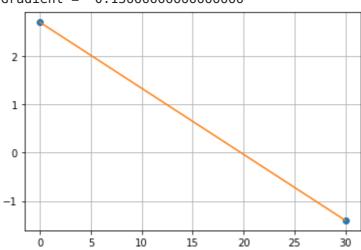
Graph 1 - Camber vs Rack displacement

Graph1

```
In [53]: x = [0.0,30.0]

y = [2.7, -1.4]
```

```
In [54]: getvals(x,y)
```



Graph 2 - Tie Rod vs Rack displacement

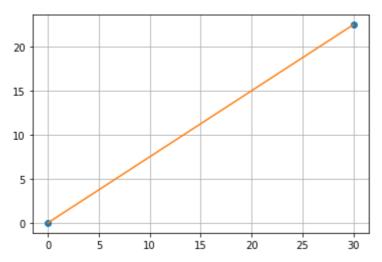
```
Graph2
```

```
In [55]: x = [0.0,30.0]

y = [0,22.5]

In [56]: getvals(x,y)
```

Gradient = 0.75



Graph 3 - Toe Angle vs Wheel Center Vertical Travel

Graph2

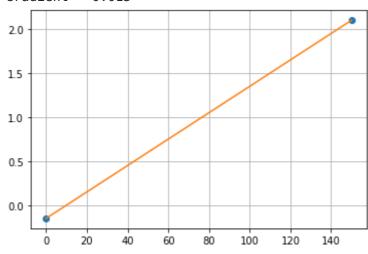
```
In [57]: x = [0.0, 150.0]

y = [-0.15, 2.1]
```

In [58]:

getvals(x,y)

Gradient = 0.015



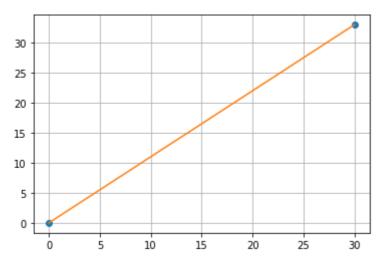
Graph 4 - base travel vs rd

Graph4

In [59]: x = [0, 30]y = [0,33]

In [60]: getvals(x,y)

Gradient = 1.1



Graph 5 - base travel vs wheel travel

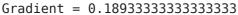
Graph4

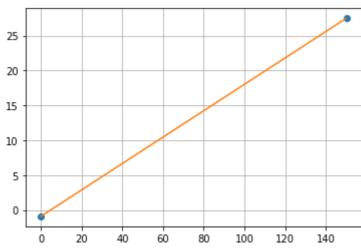
```
In [61]: x = [0, 150]

y = [-0.90, 27.5]
```

In [62]:

getvals(x,y)





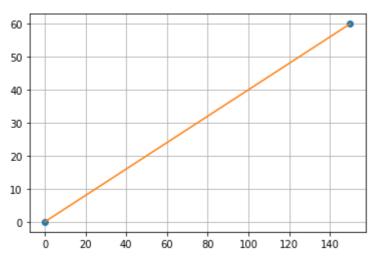
Graph 6 - base travel vs wheel travel

Graph4

In [63]: x = [0, 150]y = [0, 60]

In [64]: getvals(x,y)

Gradient = 0.4



Graph 7 - camber vs wheel travel (+ve camber here is universal -ve camber)

Graph4

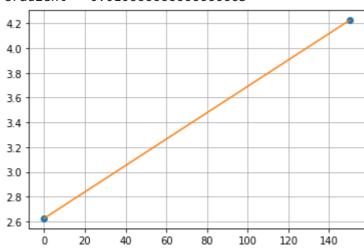
```
In [65]: x = [0, 150]

y = [2.625, 4.225]
```

In [66]:

getvals(x,y)





Graph 8 - track travel vs rd

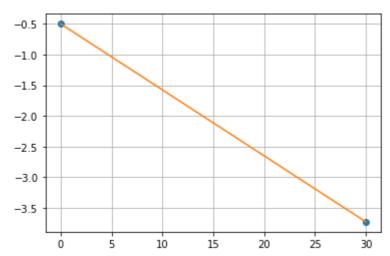
Graph4

```
In [67]: x = [0,30]

y = [-0.5,-3.725]
```

In [68]: getvals(x,y)

Gradient = -0.1075



In []:		
In []:	:	