



# SHOCK ABSORBERS: EXERCISE

Using the attached information:

1. calculate Ride frequency of front and rear sprung and unsprung masses for every spring possibility.
2. calculate the sprung mass damping coefficients at the wheel, inbump and rebound at 150 - 250 - 300 and 500 mm/sec using the advised springs in the setup (110N/mm front and 90N/mm rear), and present them in a graph [damping ratio - damper speed]. Do this for the top hard and top soft setting in the shock absorber.



**TO SUBMIT:**

1. One Document in Pdf format with your answers.

# SPRINGS AND CORNER WEIGHTS

Measures	Nm	Remark
160-60-120	120	Front use recommended
160-60-110 (car delivery - front)	110	Front use recommended
160-60-100	100	Front use recommended
160-60-90 (car delivery - rear)	90	Rear use recommended
160-60-80	80	Rear use recommended
160-60-70	70	Rear use recommended

Corner weights

+

397 Kg

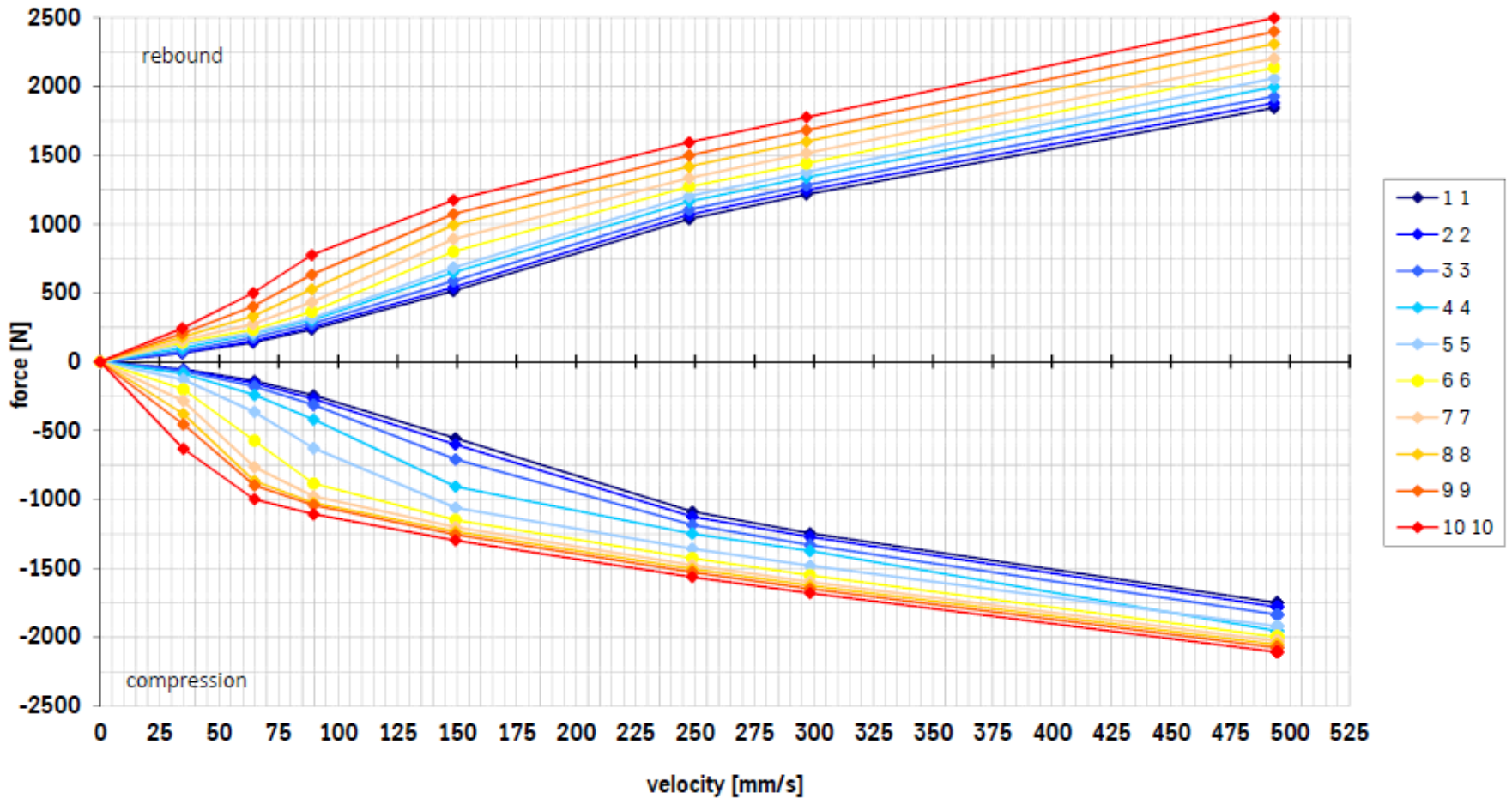
387 Kg

248 Kg

225 Kg



# FRONT DAMPER



# REAR DAMPER

