

For my plots, I replaced:

```
M = [[m 0]' [0 m*R^2/D^2]'];
K = m*g*a1*a2/L1/L2 * [[L1/a2+L2/a1 L1-L2]' ...
                        [L1-L2 a2*L1+a1*L2]'];
```

with:

```
M = [[R^2/D^2+a2^2 -R^2/D^2+a1*a2]' [-R^2/D^2+a1*a2
R^2/D^2+a1^2]'];
K = [[g*a2/L1 0]' [0 g*a1/L2]'];
```

and replaced:

```
Vx = [[1 1]' [-a1 a2]'] * V;
```

with:

```
Vx = V;
```

These are the plots comparison:



