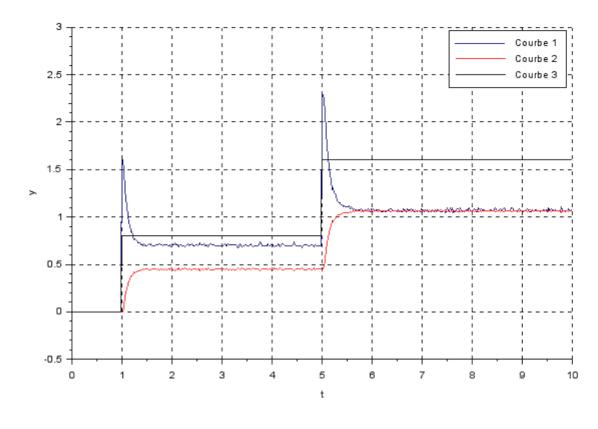
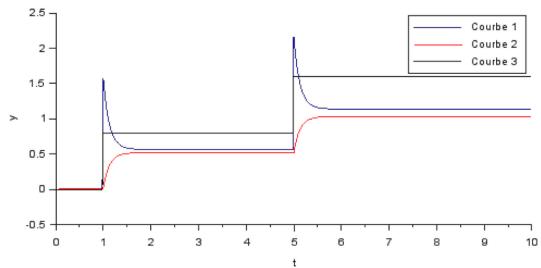
前期 第6回 実験報告(実験日:R6年5月27日) 名列番号:38 氏名:宮里 孝希

第6回 D C モータの速度制御(DC モータの PI 制御)

1. Ki=0 固定

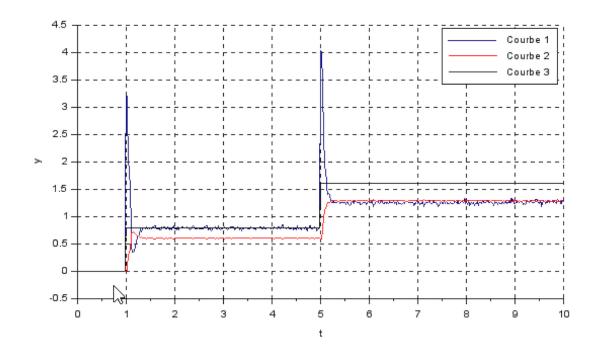
Kp = 2

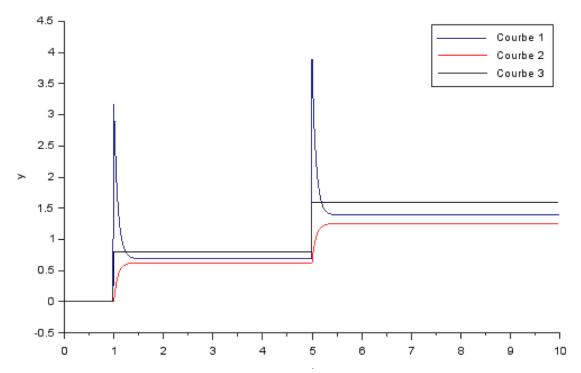


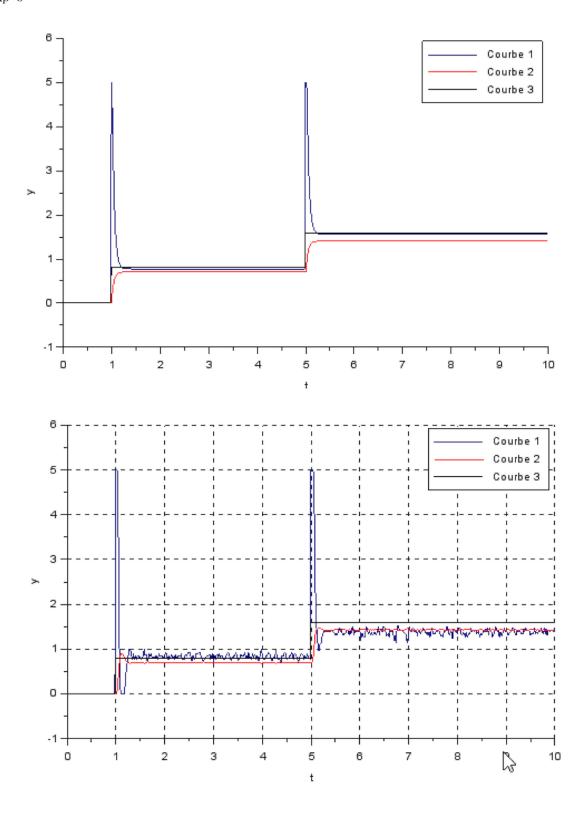


0.

p2 = - 7.9689903





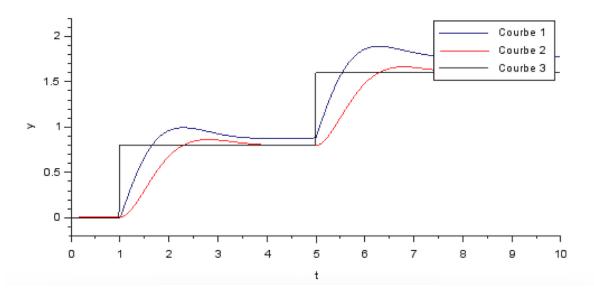


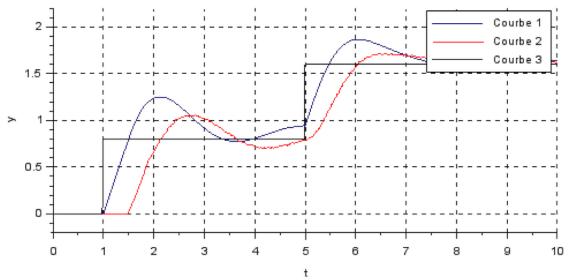
0.

- 23.304533

2. Kp = 0 固定

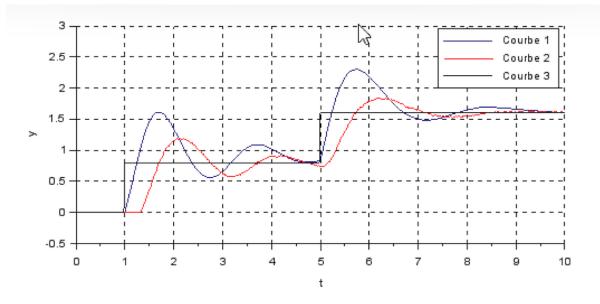
Ki = 2

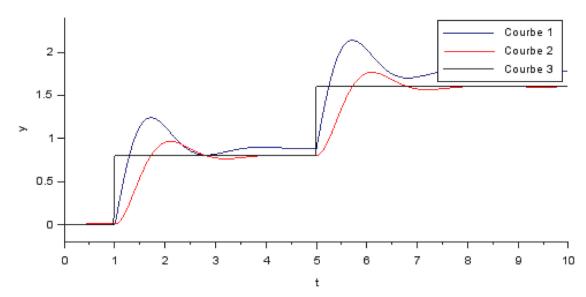




- 1.4285714 + 1.7524358i

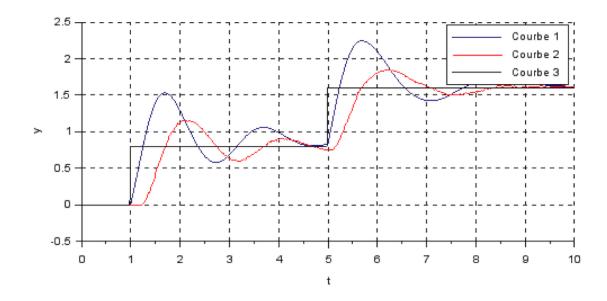
- 1.4285714 - 1.7524358i

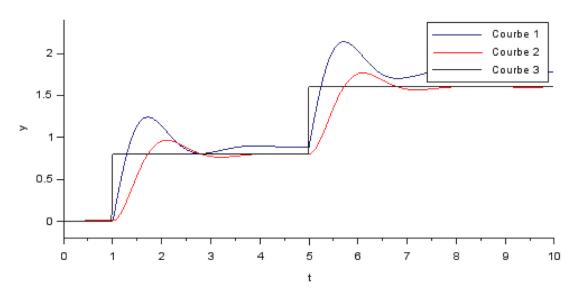




- 1.4285714 + 2.8605731i

- 1.4285714 - 2.8605731i



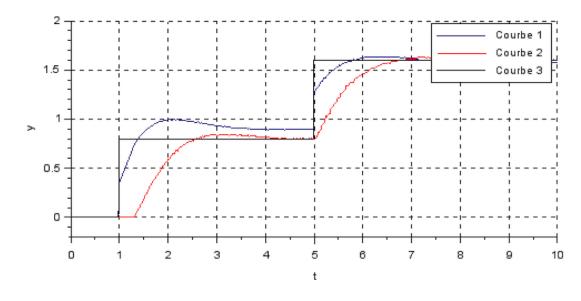


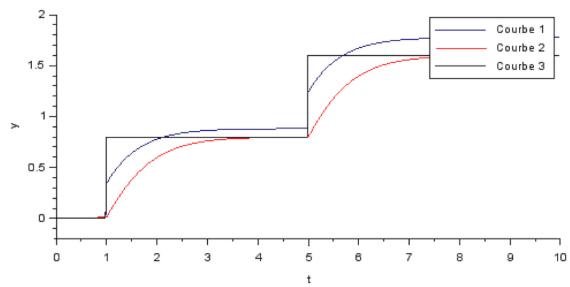
- 1.4285714 + 4.2902883i

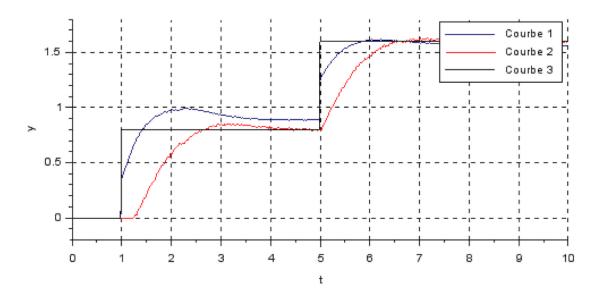
- 1.4285714 - 4.2902883i

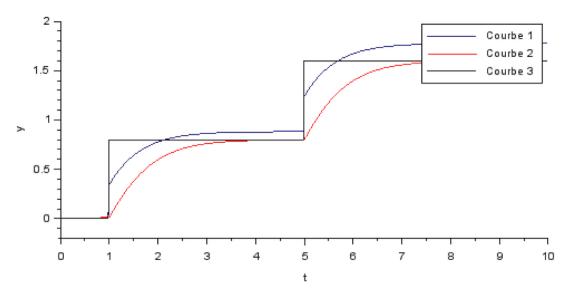
3. 極指定

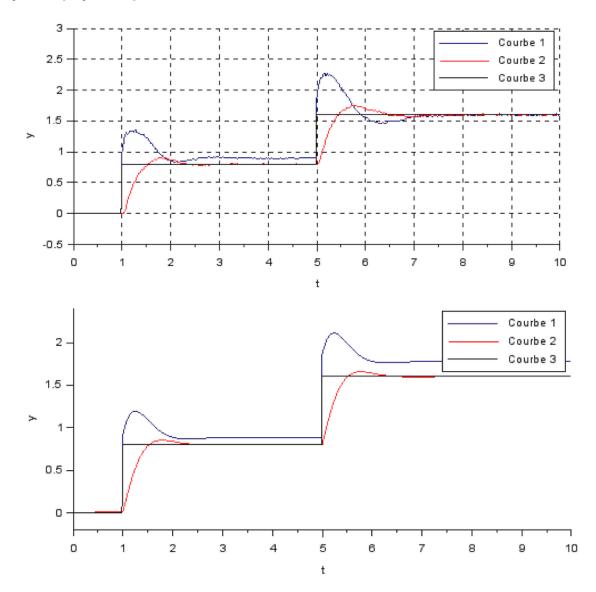
p1=p2=-2



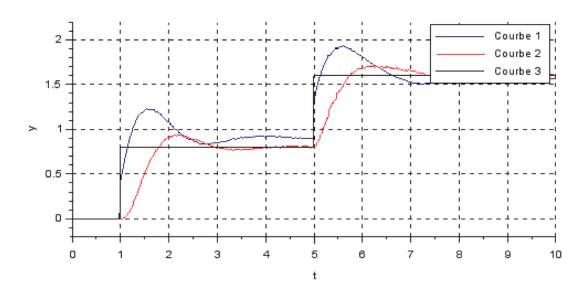


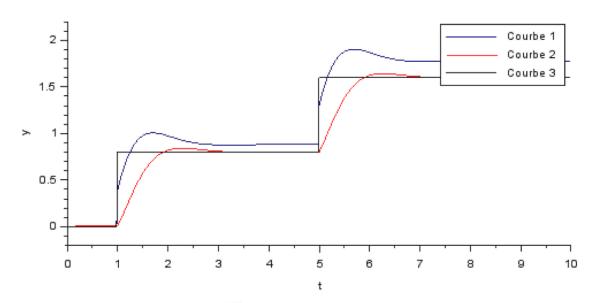






 $\omega n = 1$

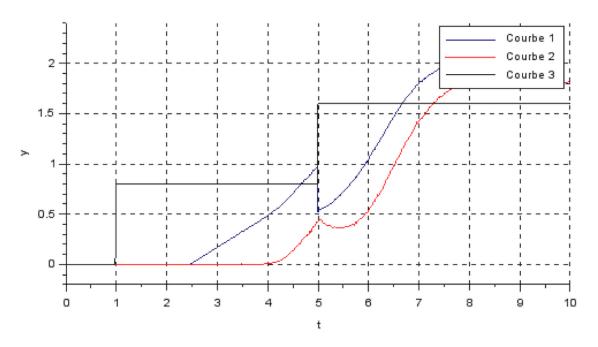


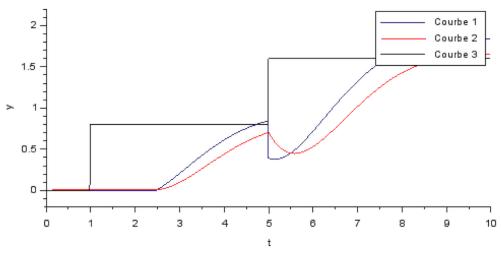


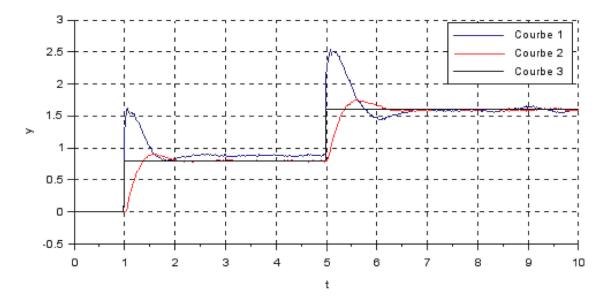
- 0.7 + 0.7141428i

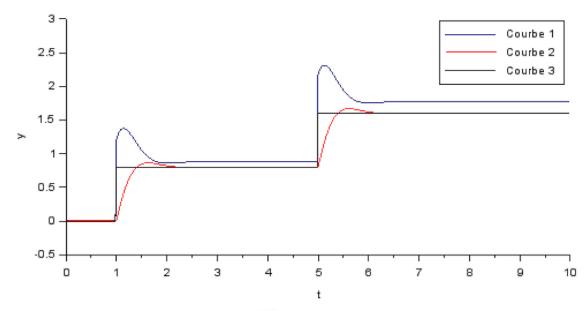
- 0.7 - 0.7141428i

 $\omega n = 3$





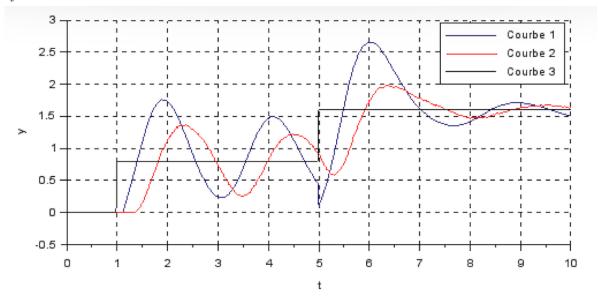


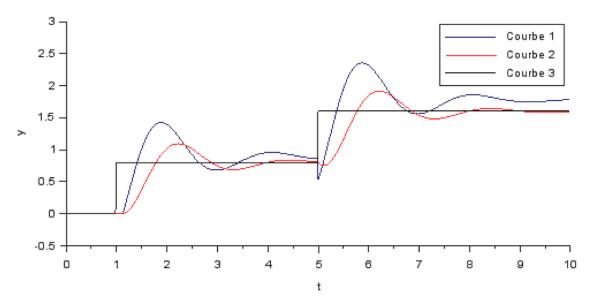


$$-3.5 + 3.5707142i$$

4. 固有振動数 ω n=3

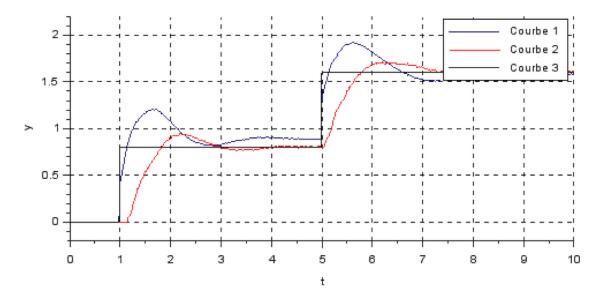
 ζ =0.3

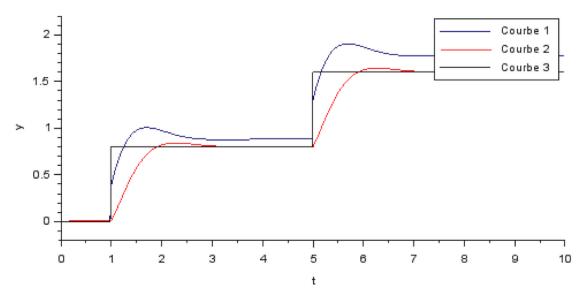




- 0.9 - 2.8618176i

 ζ =0. 7

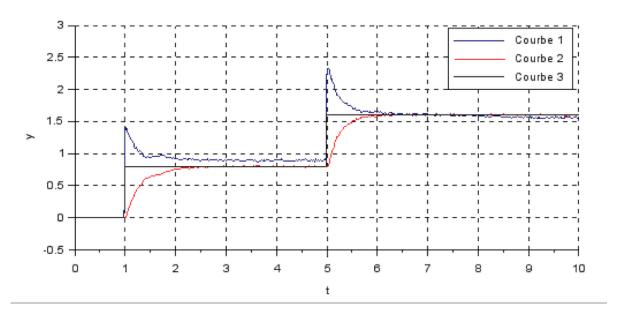


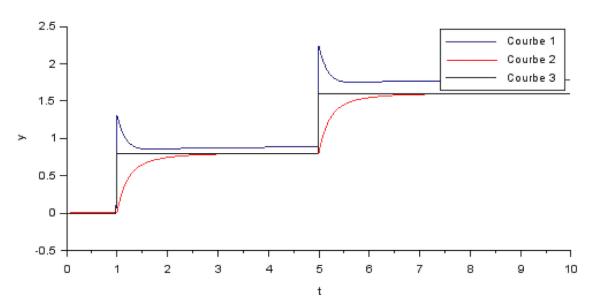


- 2.1 + 2.1424285i

- 2.1 - 2.1424285i

 $\zeta = 1.2$





- 5.5899749