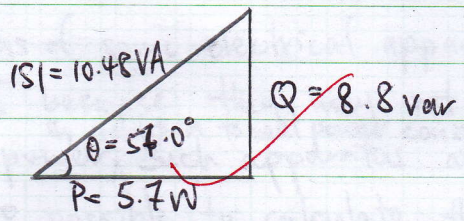
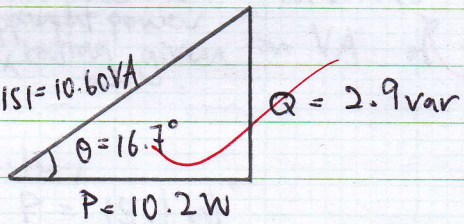
$L = 0.0852H$

$= 85.2mH \approx 89.1mH$ used in experiment

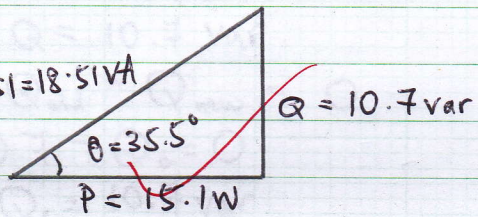
7b 6.1a:



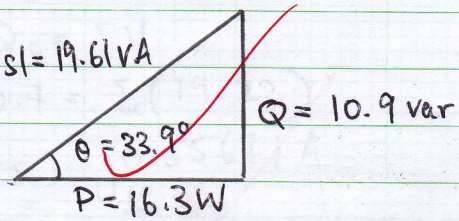
6.1b:



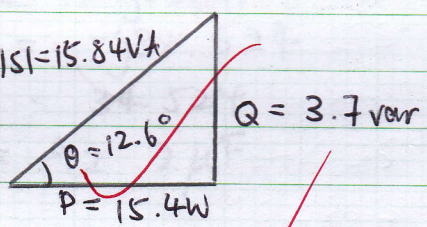
6.1c:



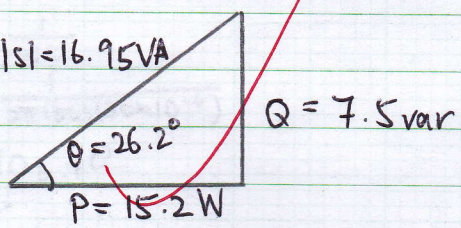
6.1d:



6.2a:



6.2b:



7c The complex power values ~~d~~ in step 6.1c and step ~~6.2~~ 6.1d ~~differ~~ increased by ~~0.2 var~~ 1.1VA. This should be caused by the increase in overall impedence of the load caused by connecting the transmission line in series with the load. As such, the complex power value obtained from step 6.1d