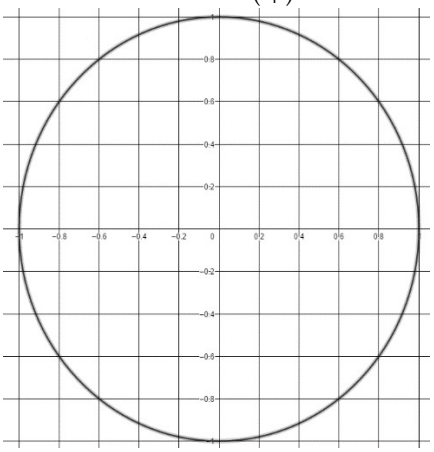
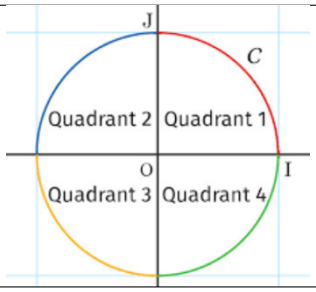
Exercise 1 Calc. : ✗

Find the value of $\cos\left(\frac{7\pi}{4}\right)$ using the unit circle below. 	4 marks

Exercise 2 Calc. : ✗

True or false? Justify your answer. If $\sin(\alpha) > 0$ and α is in Quadrant 2, $\tan(\alpha) > 0$. 	4 marks

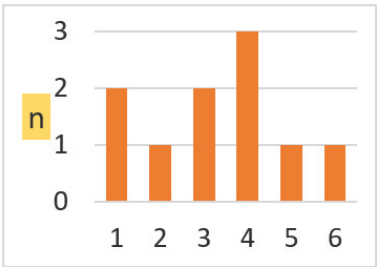
Exercise 3 Calc. : ✗

Let A and B be two events such that: $p(A) = 0.4$; $p(B') = 0.3$ and $p(A \cup B) = 0.8$. Calculate $P(A\|B)$.	6 marks

Exercise 4 Calc. : ✗

50% of a hotel rooms have a fireplace, 20% have a radiator and 10% have a fireplace and a radiator. We randomly choose a hotel room. What is the probability of the room we have chosen to have only a fireplace?	6 marks

Exercise 5 Calc. : ✗

 A dice is thrown 10 times. The diagram above shows the absolute frequency n of the 6 possible results. Based on the diagram above determine the mean and the median.	5 marks