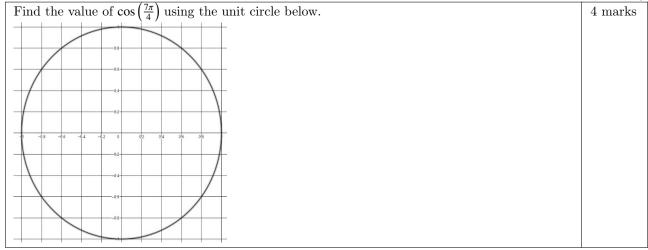
Exercise 1 Calc. : X



Exercise 2 Calc. : X

True or false? Justify your answer.

If  $\sin(\alpha) > 0$  and  $\alpha$  is in Quadrant 2,  $\tan(\alpha) > 0$ .

Quadrant 2 Quadrant 1

Quadrant 3 Quadrant 4

Exercise 3 Calc. :  $\nearrow$  Calc. :  $\nearrow$  Calc. and  $\nearrow$  Detay two events such that: p(A) = 0.4; p(B') = 0.3 and  $p(A \cup B) = 0.8$ . Calculate P(A|B).

Exercise 4

| 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

