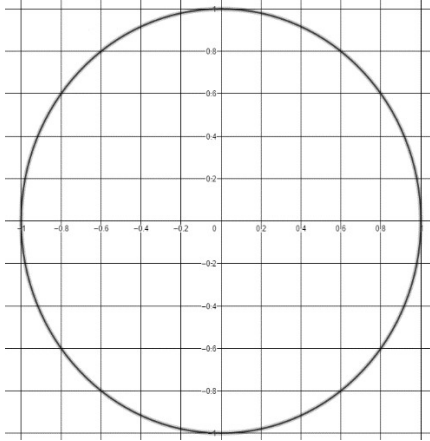


Exercise 1

Calc. : ✖

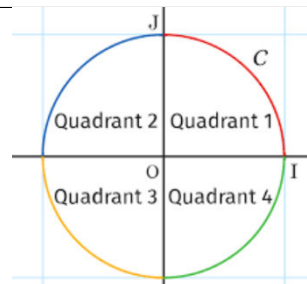
4 marks Find the value of $\cos\left(\frac{7\pi}{4}\right)$ using the unit circle below.



Exercise 2

Calc. : ✖

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



Exercise 3

Calc. : ✗

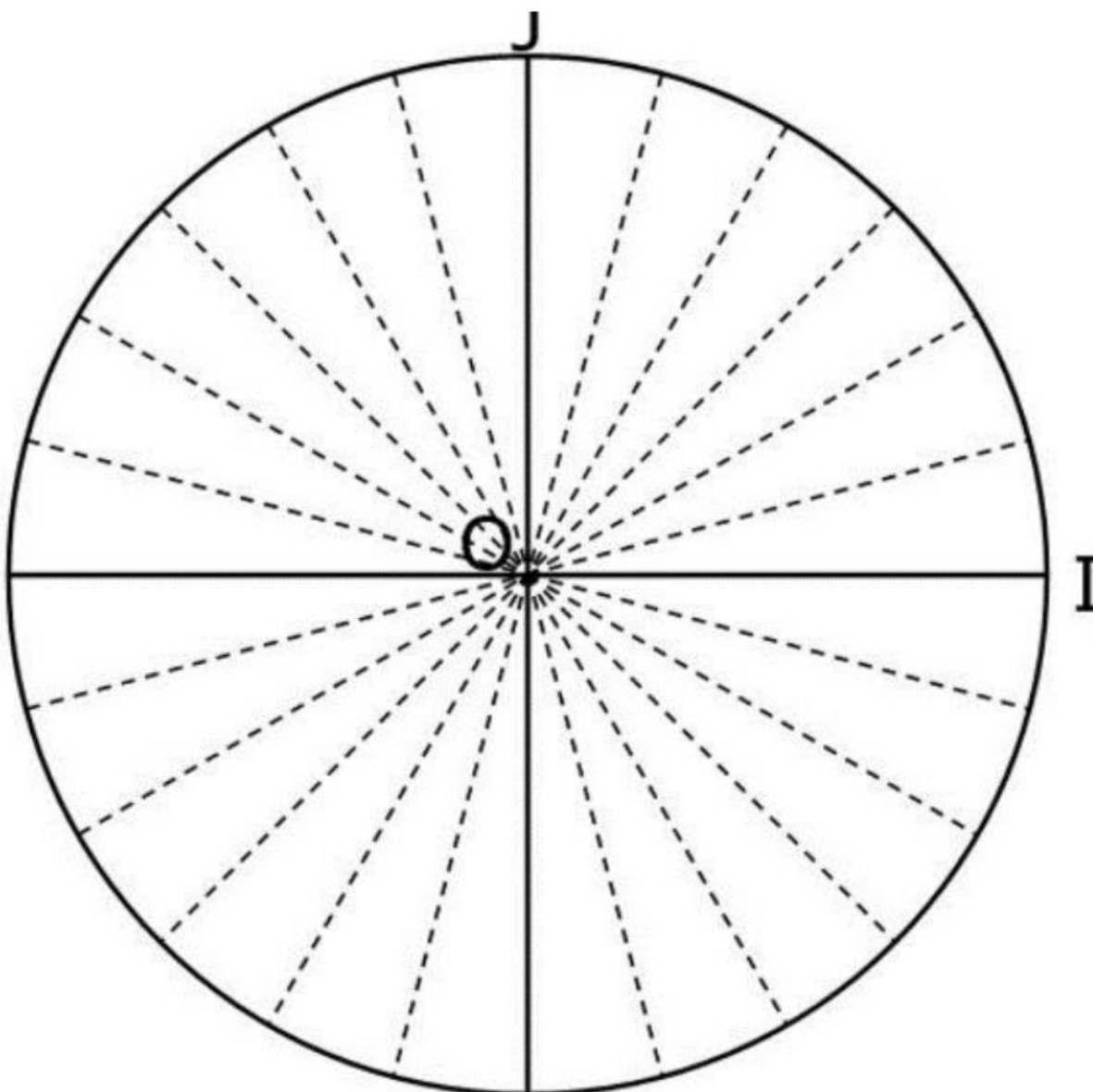
3. Place on the unit circle the following angles and for each one of them give the sin and the cos: (8 points)

a. $\frac{5\pi}{4}$

c. $\frac{\pi}{3}$

b. $\frac{11\pi}{6}$

d. π



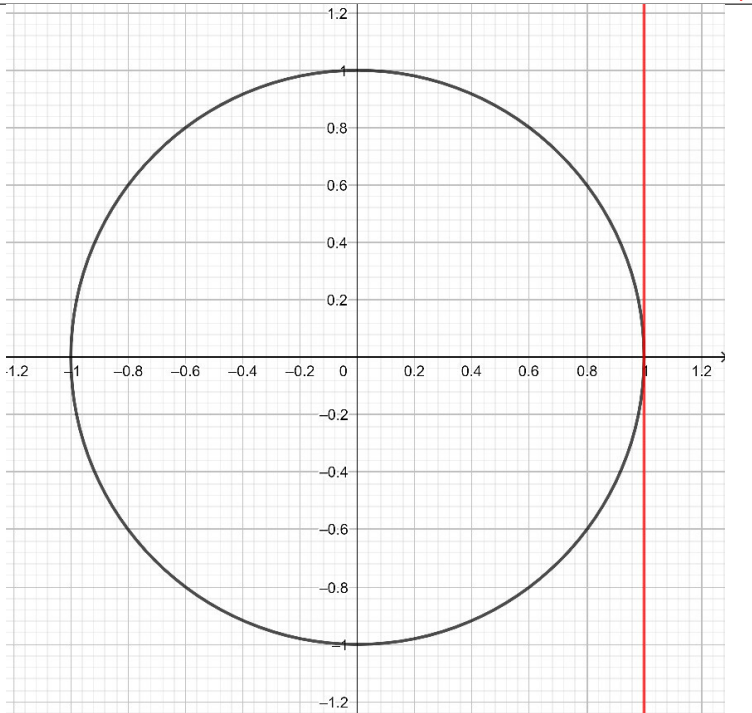
Exercise 4

Calc. : ✗

5 marks	Bestimme den Wert der folgenden Ausdrücke:		
	$A = \sin(135^\circ)$	$C = \cos(300^\circ)$	$E = \tan(135^\circ)$
	$B = \sin(-60^\circ)$	$D = \sin(330^\circ)$	

Exercise 9

Calc. : ✘

<p>2 marks</p>	<p>La figura rappresenta la circonferenza goniometrica. Sapendo che $\sin(\alpha) = \frac{3}{5}$:</p>	
<p>3 marks</p>	<p>1. Costruisci gli angoli che soddisfano la condizione data;</p>	
<p>4 marks</p>	<p>2. Ricava il valore della tangente di tali angoli; 3. Costruisci graficamente i valori trovati delle tangenti.</p>	

Exercise 10

Calc. : ✔

<p>2 marks</p>	<p>Un angolo α del primo quadrante è tale che</p> $\tan(\alpha) = 3$
<p>4 marks</p>	<p>1. Ricava $\sin(\alpha)$ e $\cos(\alpha)$ approssimando i valori a tre cifre decimali. 2. Calcola l'angolo α in gradi approssimando a due cifre decimali.</p>