Point M lies on the unit circle with centre O so that the anticlockwise angle measured from the positive x-axis to the line OM is θ , where $0 \le \theta \le 3\pi$. Determine the size of θ when M has coordinates $(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$.

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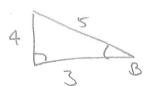
Question 8



(4 marks)

If $\cos A = \frac{5}{13}$ and $\sin B = 0.8$, find the value of $\sin(A - B)$ where angle B is an obtuse angle.

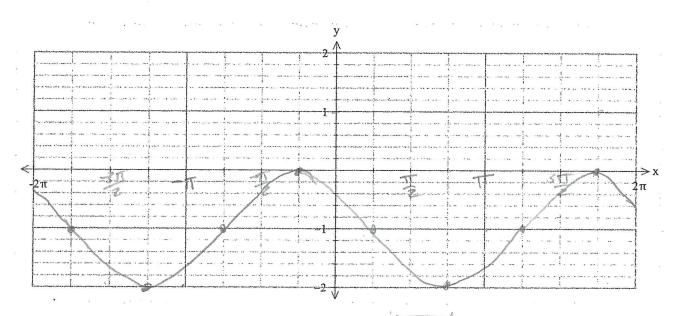
12 13 5 A



9. (3 Marks)

Sketch the following function on the axis below

$$y = \cos\left(x + \frac{\pi}{4}\right) - 1$$



Extra Revision Questions from 2021 Test 3 – Calculator Free

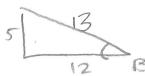
Question 1

Free SID A

(4)

If angle A is an acute angle where $\cos A = \frac{4}{5}$ and angle B is obtuse, with $\tan B = -\frac{5}{12}$, evaluate $\sin (A - B)$.

3 2 5 A



= -56 65

Question 2

(4)

Solve $4\sqrt{3} \sin x + 6 = 0$ for $-180^{\circ} \le x \le 270^{\circ}$ $4\sqrt{3} \le 5$ = -6= -6