

Kuis Sudut Relasi

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Nama:

Soal 1

Tentukan nilai: $\sin 150^\circ$!

Penyelesaian:

Diketahui hubungan sudut berelasi:

$$150^\circ = \boxed{}^\circ - \boxed{}^\circ$$

Maka,

$$\sin 150^\circ = \sin (\boxed{}^\circ - \boxed{}^\circ) = \sin \boxed{}^\circ$$

$$= \frac{\boxed{}}{\boxed{}}$$

Jadi, nilai $\sin 150^\circ$ adalah $\frac{\boxed{}}{\boxed{}}$

Soal 2

Tentukan nilai $\sin 420^\circ + \cos 210^\circ$!

Penyelesaian:

$$420^\circ = \boxed{}^\circ + \boxed{}^\circ \Rightarrow \sin 420^\circ = \sin (\boxed{}^\circ + \boxed{}^\circ)$$
$$= \sin \boxed{}^\circ = \frac{\sqrt{\boxed{}}}{\boxed{}}$$

$$210^\circ = \boxed{}^\circ + \boxed{}^\circ \Rightarrow \cos 210^\circ = \cos (\boxed{}^\circ + \boxed{}^\circ)$$
$$= -\cos \boxed{}^\circ = -\frac{\sqrt{\boxed{}}}{\boxed{}}$$

Maka,

$$\sin 420^\circ + \cos 330^\circ = \frac{\sqrt{\boxed{}}}{\boxed{}} - \frac{\sqrt{\boxed{}}}{\boxed{}} = \boxed{}$$

Jadi, nilai $\sin 420^\circ + \cos 210^\circ$ adalah $\boxed{}$