

1.03

lördag 20 januari 2024

17:57

$$u(t) = 6 \sin\left(3t + \frac{\pi}{4}\right)$$

$$A = 6 \quad \alpha = \frac{\pi}{4} \quad \omega = 3$$

$$a = A \sin \alpha \quad b = A \cos \alpha$$

$$\downarrow 6 \cdot \sin \frac{\pi}{4}$$

$$a = 3\sqrt{2}$$

$$6 \cdot \cos \frac{\pi}{4}$$

$$b = 3\sqrt{2}$$

$$S: 3\sqrt{2} \cos(3t) + 3\sqrt{2} \sin(3t)$$