

تمرين 7

$$\sin x = \frac{\sqrt{2}}{3} \quad x$$

$$E = \frac{1}{1 + \cos x} + \frac{1}{1 - \cos x}$$

$$E = \frac{2}{\sin^2 x} \quad .1$$

$$E \quad .2$$

تمرين 8

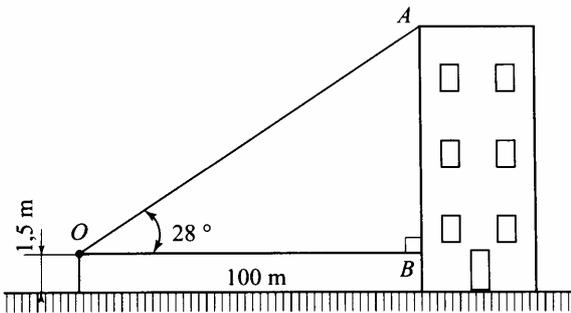
$$\cos^2 x = \frac{1}{1 + \operatorname{tg}^2 x}, \quad \sin^2 x = \frac{\operatorname{tg}^2 x}{1 + \operatorname{tg}^2 x}$$

تمرين 9

$$\operatorname{tg} x = \sqrt{2} \quad x$$

$$\cos x \quad \sin x$$

تمرين 10



تمرين 11

$$\sin x \cdot \cos x = 1 \quad x$$

تمرين 1

$$\triangle ABC \quad BC = 9 \quad AC = 7$$

$$\sin \hat{A} \quad .1$$

$$AB = 4\sqrt{2} \quad .2$$

$$\operatorname{tg} \hat{A} \quad \cos \hat{A} \quad .3$$

تمرين 2

$$\sin x = \frac{2\sqrt{2}}{3} \quad x$$

$$\operatorname{tg} x \quad \cos x$$

تمرين 3

$$\sin y \quad \operatorname{tg} y = 2 \quad \cos y \quad y$$

تمرين 4

$$[AH] \quad \triangle ABC$$

$$\hat{A} \quad .1$$

$$\hat{A} = \beta^\circ \quad \hat{C} = \alpha^\circ$$

$$\alpha^\circ = \beta^\circ \quad .2$$

$$\sin \beta^\circ \quad .3$$

$$AH \times BC = AB \times AC \quad .4$$

$$\cos \beta^\circ \quad .5$$

$$AB^2 = BH \times BC \quad .6$$

$$\sin \alpha^\circ \quad .7$$

$$AC^2 = CH \times CB \quad .8$$

$$\operatorname{tg} \beta^\circ \quad \operatorname{tg} \alpha^\circ \quad .9$$

$$AH^2 = BH \times CH \quad .10$$

$$\hat{A} \quad .11$$

تمرين 5

$$\triangle ABC \quad BC = 6 \quad A$$

$$\operatorname{tg} \hat{C} = \sqrt{3} \quad .1$$

$$\hat{C} \quad .2$$

$$\hat{B} \quad .3$$

$$AB \quad .4$$

$$AC \quad .5$$

تمرين 6

$$A = (\cos x + \sin x)^2 + (\cos x - \sin x)^2$$

$$B = 2 \cos^2 x + 3 \sin^2 x - 2$$