Izra una emo si 75° bez koriš enja kalkulatora:

$$\sin 75° = \sin(45° + 30°) = \sin 45° \cos 30° + \cos 45° \sin 30°$$

$$\sin 75° = \frac{\sqrt{2}}{2} \cdot \frac{\sqrt{3}}{2} + \frac{\sqrt{2}}{2} \cdot \frac{1}{2} = \frac{\sqrt{2}(\sqrt{3}+1)}{4}$$

» $a = \dfrac{4\sqrt{2} \cdot \frac{\sqrt{2}(\sqrt{3}+1)}{4}}{\frac{\sqrt{3}}{2}} = \dfrac{4(\sqrt{3}+1)}{\sqrt{3}} \cdot \dfrac{\sqrt{3}}{\sqrt{3}} = \dfrac{4\sqrt{3}(\sqrt{3}+1)}{3} = \dfrac{4(3+\sqrt{3})}{3}$

» $\gamma = 180° - (\alpha + \beta) = 180° - (75° + 60°) = 180° - 135° = 45°$

Površina trougla je:

$$P = \frac{a}{2} = \frac{\frac{4(3+\sqrt{3})}{3} \cdot 4\sqrt{2} \cdot \sin 4 °}{2} = \frac{\frac{4(3+\sqrt{3})}{3} 4\sqrt{2} \cdot \frac{\sqrt{2}}{2}}{2} = \frac{\frac{1 (3+\sqrt{3})}{3}}{2} = \frac{8(3+\sqrt{3})}{3}$$

» $P = \dfrac{8(3+\sqrt{3})}{3} c \: ^2$

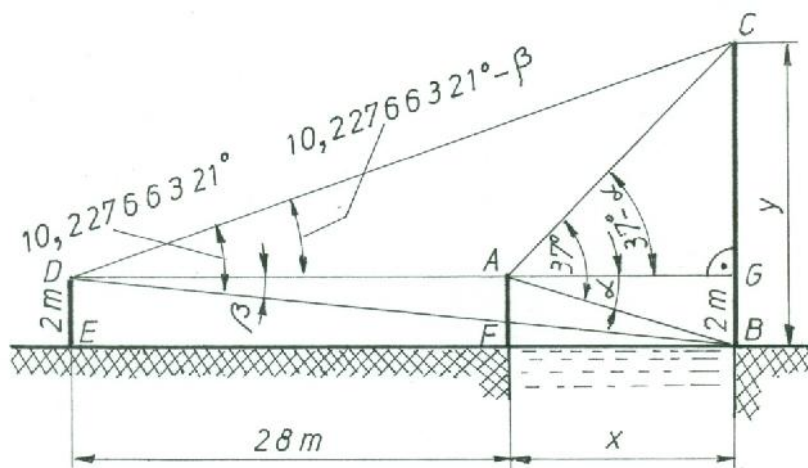498. Sve oznake odnose se na crtež ispod.

Trougao $A$  :

$$t\iota  = \frac{2}{x} \qquad t\iota(37° - \alpha) = \frac{y-2}{x}$$

» $t\iota(37° - \alpha) = \dfrac{t \: 3° - t\iota}{1 + t \: 3° t\iota} = \dfrac{t \: 3° - \frac{2}{x}}{1 + t \: 3° \cdot \frac{2}{x}}$

» $\dfrac{t \: 3° - \frac{2}{x}}{1 + t \: 3° \cdot \frac{2}{x}} = \dfrac{y-2}{x}$



$$\dfrac{\frac{0,7}{x} \quad \frac{x-2}{}}{\frac{x+0,7}{x} \cdot 2} = \dfrac{y-2}{x}$$