

**Zadatak 12.**

Odredi arkus kotangens iz zadane vrijednosti kotagensa:

- |   |   |
|---|---|
| 1) $\operatorname{ctg} \alpha = 3.51551$ ;  | 2) $\operatorname{ctg} \alpha = 0.11226$ ;  |
| 3) $\operatorname{ctg} \alpha = 0.097$ ;    | 4) $\operatorname{ctg} \alpha = 1.38934$ ;  |
| 5) $\operatorname{ctg} \alpha = -0.75353$ ; | 6) $\operatorname{ctg} \alpha = -13.3567$ . |

**Rješenje.**

- 1)  $\operatorname{ctg} \alpha = 3.51551 \implies \operatorname{tg} \alpha = \frac{1}{3.51551} = 0.284453749 \implies \alpha = \operatorname{arc tg} 0.284453749 = 15.87860^\circ = 15^\circ 52' 43''$ ;
- 2)  $\operatorname{ctg} \alpha = 0.11226 \implies \operatorname{tg} \alpha = \frac{1}{0.11226} = 8.907892393 \implies \alpha = \operatorname{arc tg} 8.907892393 = 83.59479276^\circ \alpha = 83^\circ 35' 41''$ ;
- 3)  $\operatorname{ctg} \alpha = 0.097 \implies \operatorname{tg} \alpha = \frac{1}{0.097} = 10.30927835 \implies \alpha = \operatorname{arc tg} 10.30927835 = 84.45964241^\circ \alpha = 84^\circ 27' 35''$ ;
- 4)  $\operatorname{ctg} \alpha = 1.389341 \implies \operatorname{tg} \alpha = \frac{1}{1.38934} = 0.719766219 \implies \alpha = \operatorname{arc tg} 0.719766219 = 35.74506475^\circ \alpha = 35^\circ 44' 42''$ ;
- 5)  $\operatorname{ctg} \alpha = -0.75353 \implies \operatorname{tg} \alpha = \frac{1}{-0.75353} = -1.327087176 \implies \alpha = \operatorname{arc tg} -1.327087176 = -53.0008789^\circ \alpha = -53^\circ 3''$ ;
- 6)  $\operatorname{ctg} \alpha = -13.3567 \implies \operatorname{tg} \alpha = \frac{1}{-13.3567} = -0.074868792 \implies \alpha = \operatorname{arc tg} -0.074868792 = -4.281677667^\circ \alpha = -4^\circ 16' 54''$ .