

**Zadatak 13.** Odredi sve vrijednosti realnog broja  $t$  ako je zadano:

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| 1) $\operatorname{tg} t = 0.25$ ; | 2) $\operatorname{tg} t = 0.75$ ; |
| 3) $\operatorname{tg} t = 3.60$ ; | 4) $\operatorname{tg} t = 15.2$ ; |
| 5) $\operatorname{tg} t = -2.5$ ; | 6) $\operatorname{tg} t = -7.5$ . |

- Rješenje.**
- 1)  $t_1 = \operatorname{arc} \operatorname{tg} 0.25 = 14.03624347^\circ = 14^\circ 2' 10''$ ,  $t = 14^\circ 2' 10'' + k \cdot 180^\circ$ ,  $k \in \mathbf{Z}$ ;
  - 2)  $t_1 = \operatorname{arc} \operatorname{tg} 0.75 = 36.86989765^\circ = 36^\circ 52' 12''$ ,  $t = 36^\circ 52' 12'' + k \cdot 180^\circ$ ,  $k \in \mathbf{Z}$ ;
  - 3)  $t_1 = \operatorname{arc} \operatorname{tg} 3.60 = 74.475889^\circ = 74^\circ 28' 33''$ ,  $t = 74^\circ 28' 33'' + k \cdot 180^\circ$ ,  $k \in \mathbf{Z}$ ;
  - 4)  $t_1 = \operatorname{arc} \operatorname{tg} 15.2 = 86.23596514^\circ = 86^\circ 14' 9''$ ,  $t = 86^\circ 14' 9'' + k \cdot 180^\circ$ ,  $k \in \mathbf{Z}$ ;
  - 5)  $t_1 = \operatorname{arc} \operatorname{tg} -2.5 = -68.19859051^\circ = -68^\circ 11' 55''$ ,  $t = -68^\circ 11' 55'' + k \cdot 180^\circ$ ,  $k \in \mathbf{Z}$ ;
  - 6)  $t_1 = \operatorname{arc} \operatorname{tg} -7.5 = -82.40535663^\circ = -84^\circ 24' 12''$ ,  $t = -84^\circ 24' 12'' + k \cdot 180^\circ$ ,  $k \in \mathbf{Z}$ .