

1. $\operatorname{sen}^4 x + \operatorname{cos}^4 x = \frac{5}{8}$ $[\pm 60^\circ + k 180^\circ; \pm 30^\circ + k 180^\circ]$
2. $1 - \operatorname{cos} 2x = \operatorname{tg} x$ $[k 180^\circ; 45^\circ + k 180^\circ]$
3. $\operatorname{sen}^3 x + \operatorname{cos}^3 x = \operatorname{sen} x$ $[90^\circ + k 180^\circ; 45^\circ + k 180^\circ]$
4. $\operatorname{sen} 2x + \operatorname{cos} x + \operatorname{sen} x + \operatorname{cos} 2x + 1 = 0$ $[-45^\circ + k 180^\circ; 120^\circ + k 360^\circ; 240^\circ + k 360^\circ]$
5. $\operatorname{cos} x - \operatorname{sen} x = 1 - \operatorname{sen} 2x$ $[45^\circ + k 180^\circ; 270^\circ + k 360^\circ; 360^\circ + k 360^\circ]$
6. $(1 - \operatorname{tg} x) \cdot (1 + \operatorname{sen} 2x) = 1 + \operatorname{tg} x$ $[k 180^\circ; -45^\circ + k 180^\circ]$
7. $\frac{\operatorname{cos} x}{1 + \operatorname{sen} x} + \operatorname{tg} x = 2$ $[\pm 60^\circ + k 360^\circ]$
8. $\operatorname{tg}^2 x = \frac{1 - \operatorname{cos} x}{1 - \operatorname{sen} x}$ $[0^\circ + k 360^\circ; 45^\circ + k 180^\circ]$
9. $\frac{1 - \operatorname{tg} x}{1 - \operatorname{cotg} x} = 2 \operatorname{sen} 2x$ [Impossibile]
10. $\operatorname{sen} 2x = \frac{1}{\operatorname{cotg} x - \operatorname{tg} x}$ $[\pm 30^\circ + k 180^\circ]$
11. $\frac{1}{\operatorname{cos} x} + \frac{1}{\operatorname{sen} x} = \operatorname{sen} x \cdot \operatorname{tg} x + \operatorname{cos} x \cdot \operatorname{cotg} x$ $[-45^\circ + k 180^\circ]$
12. $\frac{\operatorname{tg} x + \operatorname{sen} x}{\operatorname{cos} x} = 2 (\operatorname{tg} x - \operatorname{sen} x) \cdot \left(1 + \frac{1}{\operatorname{cos} x}\right)$ $[k 180^\circ; \pm 60^\circ + k 360^\circ]$
13. $\frac{\operatorname{cos} 2x}{1 - \operatorname{sen} 2x} = \operatorname{cos} x + \operatorname{sen} x$ $[-45^\circ + k 180^\circ; k 360^\circ; 270^\circ + k 360^\circ]$