

Trigonometrisko izteiksmju vienkāršošana.

1)  $2 + \sin^2\beta + \cos^2\beta =$

2)  $\sin\beta \cdot \operatorname{ctg}\beta =$

1	$\cos\beta$	$\sin\beta$	$\operatorname{tg}\beta$
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3)  $\sin^2x - 1 =$

$\sin^2x$	$\cos^2x$	$-\cos^2x$	$-\sin^2x$
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4)  $(\cos\frac{\pi}{5} - 1)(\cos\frac{\pi}{5} + 1) =$

$\cos^2\frac{\pi}{5}$	$-\cos^2\frac{\pi}{5}$	$\sin^2\frac{\pi}{5}$	$-\sin^2\frac{\pi}{5}$
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5)  $(1 + \operatorname{tg}^2x) \cdot \sin^2x =$

$\operatorname{tg}^2x$	$-\operatorname{ctg}^2x$	$-\operatorname{tg}^2x$	$\operatorname{ctg}^2x$
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6)  $\frac{\sin(-x)}{\cos x} =$

$\operatorname{tg}x$	$\operatorname{ctgx}$	$-\operatorname{tg}x$	$-\operatorname{ctgx}$
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7)  $\operatorname{ctg}56^\circ \cdot \operatorname{tg}56^\circ + \operatorname{tg}64^\circ \cdot \operatorname{ctg}64^\circ =$

8)  $\frac{1 - \sin^2\beta}{1 - \cos^2\beta} =$

$\operatorname{tg}\beta$	$\operatorname{tg}^2\beta$	$\operatorname{ctg}\beta$	$\operatorname{ctg}^2\beta$
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9)  $\operatorname{tg}^2y + 1 =$

$\operatorname{ctg}^2y$	$\frac{1}{\cos^2y}$	$\frac{1}{\sin^2y}$	$2$
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10)  $\cos^2\delta - 1 =$

$\sin^2\delta$	$\cos^2\delta$	$-\sin^2\delta$	$-\cos^2\delta$
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11)  $\frac{1}{1 + \operatorname{ctg}^2x} =$

$\sin^2x$	$\cos^2x$	$-\cos^2x$	$-\sin^2x$
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12)  $\sin^275^\circ + \cos^275^\circ + 2 \cdot \operatorname{tg}75^\circ \cdot \operatorname{ctg}75^\circ =$

13)  $1 - \cos^212^\circ - \sin^212^\circ =$

14)  $\frac{12}{1 + 5 \cdot \operatorname{tg}65^\circ \cdot \operatorname{ctg}65^\circ} =$

$$15) (1 - \sin^2 x) \cdot (1 + \tan^2 x) + \sqrt{121} =$$

$$16) (1 + \cot^2 a) \cdot (1 - \cos^2 a) + \cos^2 x + \cos^2 x =$$

$$17) \tan^2 x + \cot^2 x + 2 - \frac{1}{\sin^2 x} - \frac{1}{\cos^2 x} =$$

$$18) \sin x \cdot \tan x + \cos x =$$

$$\frac{1}{\sin x} \quad \frac{1}{\cos x} \quad \sin x \quad \cos x$$

$$19) \frac{1 - \cos^2 x}{\tan^2 x} =$$
  
$$\sin^2 x \quad \cos^2 x \quad -\cos^2 x \quad -\sin^2 x$$

$$20) \sin y \cot y + \cos y =$$