

I'm not a robot!

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8234454.39394 55558267864 39319885152 61529710.588235 43261948488 296143689.85714 88664726829 72496314196

$$(1) \tan^{-1} x + \tan^{-1} y = \tan^{-1} \left(\frac{x+y}{1-xy} \right);$$

If $x > 0, y > 0$ and $xy < 1$

$$(2) \tan^{-1} x + \tan^{-1} y = \pi + \tan^{-1} \left(\frac{x+y}{1-xy} \right);$$

If $x > 0, y > 0$ and $xy > 1$

$$(3) \tan^{-1} x + \tan^{-1} y = -\pi + \tan^{-1} \left(\frac{x+y}{1-xy} \right);$$

If $x < 0, y < 0$ and $xy > 1$

$$(4) \tan^{-1} x - \tan^{-1} y = \tan^{-1} \left(\frac{x-y}{1+xy} \right);$$

If $xy > -1$

$$(5) \tan^{-1} x - \tan^{-1} y = \pi + \tan^{-1} \left(\frac{x-y}{1+xy} \right);$$

If $x > 0, y < 0$ and $xy < -1$

$$(6) \tan^{-1} x - \tan^{-1} y = -\pi + \tan^{-1} \left(\frac{x-y}{1+xy} \right);$$

If $x < 0, y > 0$ and $xy < -1$

$$(7) \tan^{-1} x + \tan^{-1} y + \tan^{-1} z = \tan^{-1} \left[\frac{x+y+z-xyz}{1-xy-yz-zx} \right]$$

$$\int \sin x \, dx = -\cos x + C \quad \text{inverse of } \frac{d \cos x}{dx} = -\sin x$$

$$\int \cos x \, dx = \sin x + C \quad \text{inverse of } \frac{d \sin x}{dx} = \cos x$$

$$\int \tan x \, dx = -\ln(\cos x) + C \quad \tan x \, dx = \frac{-d \cos x}{\cos x}$$

$$\int \cot x \, dx = \ln(\sin x) + C \quad \cot x \, dx = \frac{d \sin x}{\sin x}$$

$$\int \sec x \, dx = \ln(\sec x + \tan x) + C$$

$$\int \csc x \, dx = -\ln(\csc x + \cot x) + C \quad \text{as in previous case}$$

$$\int \sec^2 x \, dx = \tan x + C \quad \text{inverse of } d \tan x = \sec^2 x \, dx$$

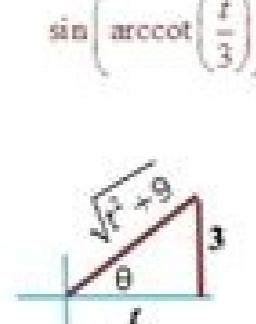
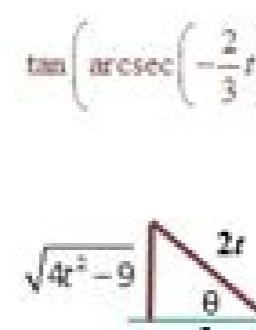
$$\int \csc^2 x \, dx = -\cot x + C \quad \text{inverse of } d \cot x = -\csc^2 x \, dx$$

$$\begin{aligned} \int \sin^{-1} x \, dx &= x \sin^{-1} x + \sqrt{1-x^2} + C \\ \int \cos^{-1} x \, dx &= x \cos^{-1} x - \sqrt{1-x^2} + C \\ \int \tan^{-1} x \, dx &= x \tan^{-1} x - \frac{1}{2} \ln(1+x^2) + C \\ \int \csc^{-1} x \, dx &= x \csc^{-1} x + \ln(x + \sqrt{x^2-1}) + C \\ \int \sec^{-1} x \, dx &= x \sec^{-1} x - \ln(x + \sqrt{x^2-1}) + C \\ \int \cot^{-1} x \, dx &= x \cot^{-1} x + \frac{1}{2} \ln(1+x^2) + C \end{aligned}$$

$$\frac{d}{dx} [\sin f(x)] = \frac{f'(x)}{\sqrt{1-f(x)^2}} \quad \frac{d}{dx} [\cos f(x)] = -\frac{f'(x)}{\sin \sqrt{1-f(x)^2}}$$

$$\frac{d}{dx} [\cos f(x)] = -\frac{f'(x)}{\sqrt{1-f(x)^2}} \quad \frac{d}{dx} [\sin f(x)] = \frac{f'(x)}{\cos \sqrt{1-f(x)^2}}$$

$$\frac{d}{dx} [\tan f(x)] = \frac{f'(x)}{1+f(x)^2} \quad \frac{d}{dx} [\cot f(x)] = -\frac{f'(x)}{1+f(x)^2}$$

Composite Inverse	Answer	Composite Inverse	Answer
$\sin(\sec^{-1}\left(\frac{1}{t-1}\right))$	<p>Use SOH-CAH-TOA or $\sec(\theta) = \frac{r}{x}$ to see that $r = 1$ and $x = t - 1$ (Quadrant I).</p> <p>Then use Pythagorean Theorem $y^2 = l^2 - (t-1)^2$ to see that $y = \sqrt{l^2 - (t-1)^2}$.</p> <p>Since we want \sin of this angle, we have</p> $\sin(\theta) = \frac{y}{r} = \sqrt{l^2 - (t-1)^2}.$ 	$\sin(\arccot\left(\frac{t}{3}\right))$	<p>Use SOH-CAH-TOA or $\cot(\theta) = \frac{x}{y}$ to see that $x = t$ and $y = 3$ (Quadrant I).</p> <p>Then use Pythagorean Theorem $r^2 = t^2 + 3^2$ to see that $r = \sqrt{t^2 + 9}$. Since we want \sin of this angle, we have</p> $\sin(\theta) = \frac{y}{r} = \frac{3}{\sqrt{t^2 + 9}}.$ 
$\csc(\cos^{-1}(-t))$	<p>Use SOH-CAH-TOA or $\cos(\theta) = \frac{x}{r}$ to see that $x = -t$ and $r = 1$ (Quadrant II).</p> <p>Then use Pythagorean Theorem $y^2 = l^2 - (-t)^2$ to see that $y = \sqrt{1-t^2}$. Since we want \csc of this angle, we have</p> $\csc(\theta) = \frac{r}{y} = \frac{1}{\sqrt{1-t^2}}.$ 	$\tan(\operatorname{arcsec}\left(-\frac{2}{3}t\right))$	<p>Use SOH-CAH-TOA or $\sec(\theta) = \frac{r}{x}$ to see that $r = 2t$ and $x = -3$ (Quadrant II).</p> <p>Then use Pythagorean Theorem $y^2 = (2t)^2 - (-3)^2$ to see that $y = \sqrt{4t^2 - 9}$. Since we want \tan of this angle, we have</p> $\tan(\theta) = \frac{y}{x} = \frac{\sqrt{4t^2 - 9}}{-3}.$ 
$\sin(\tan^{-1}(-2t))$	<p>Use SOH-CAH-TOA or $\tan(\theta) = \frac{y}{x}$ to see that $y = -2t$ and $x = 1$ (Quadrant IV).</p> <p>Then use Pythagorean Theorem $r^2 = (-2t)^2 + 1^2$ to see that $r = \sqrt{4t^2 + 1}$. Since we want \sin of this angle, we have</p> $\sin(\theta) = \frac{y}{r} = -\frac{2t}{\sqrt{4t^2 + 1}}.$ 	$\sec(\tan^{-1}\left(\frac{4}{t}\right))$	<p>Use SOH-CAH-TOA or $\tan(\theta) = \frac{y}{x}$ to see that $y = 4$ and $x = t$ (Quadrant I).</p> <p>Then use Pythagorean Theorem $r^2 = t^2 + 4^2$ to see that $r = \sqrt{t^2 + 16}$. Since we want \sec of this angle, we have</p> $\sec(\theta) = \frac{r}{x} = -\frac{\sqrt{t^2 + 16}}{t}.$ 

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