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Evaluate the given expression or find the side of a right triangle.

1.  $\sin^{-1}\left(\frac{2}{3}\right)$
2.  $\cos^{-1}\left(\frac{1}{5}\right)$
3.  $\tan^{-1}\left(\frac{2\sqrt{3}}{3}\right)$
4.  $\sin^{-1}\left(\frac{\sqrt{3}}{2}\right)$
5.  $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$
6.  $\tan^{-1}\left(\frac{1}{\sqrt{3}}\right)$
7.  $\cos^{-1}\left(-\frac{1}{2}\right)$
8.  $\sin^{-1}\left(-\frac{1}{2}\right)$
9.  $\tan^{-1}\left(\frac{\sqrt{3}}{3}\right)$
10.  $\sin^{-1}\left(-\frac{\sqrt{3}}{2}\right)$
11.  $\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right)$
12.  $\tan^{-1}(-3)$
13.  $\sin^{-1} 0$
14.  $\cos^{-1} 0$
15.  $\sin^{-1}\left(\frac{1}{\sqrt{2}}\right)$
16.  $\cos^{-1} 1$
17.  $\cos^{-1} 0$
18.  $\sin^{-1} 0$
19.  $\cos^{-1}(-1)$
20.  $\cos^{-1}(-1)$

**Inverse Trig Derivatives & Implicit Differentiation**

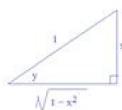
Example:  $y = \sin^{-1} x$  What is  $\frac{dy}{dx}$ ?

Step 1: Change the inverse trig term

$$\sin y = \sin(\sin^{-1} x)$$

$$\sin(y) = x$$

Step 2: "Draw the triangle"



Sine  $y = \frac{\text{opposite}}{\text{hypotenuse}}$

Pythagorean Theorem  
 $a^2 + b^2 = c^2$

Step 3: Use implicit differentiation to find  $dy/dx$

$$\cos(y) \frac{dy}{dx} = 1$$

$$\frac{dy}{dx} = \frac{1}{\cos(y)}$$

using the triangle,  $\frac{dy}{dx} = \frac{1}{\sqrt{1-x^2}}$

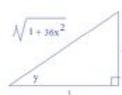
Example:  $y = \tan^{-1}(6x)$  Find the derivative.

Step 1: Change the inverse trig term

$$\tan y = \tan(\tan^{-1}(6x))$$

$$\tan(y) = 6x$$

Step 2: "Draw the triangle"



Tan  $y = \frac{\text{opposite}}{\text{adjacent}}$

Pythagorean Theorem  
 $a^2 + b^2 = c^2$

Step 3: Use implicit differentiation to find  $dy/dx$

$$\sec^2(y) \frac{dy}{dx} = 6$$

$$\frac{dy}{dx} = \frac{6}{\sec^2(y)}$$

using the triangle,  $\frac{dy}{dx} = \frac{6}{\sqrt{1+36x^2}^2} = \frac{6}{1+36x^2}$

Name : \_\_\_\_\_ Score : \_\_\_\_\_  
Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

**Exponential Equations Not Requiring Logarithms**

Solve each given equation.

- 1)  $10^{2x+3} = 100$
- 2)  $7^{2x+2} = 7^{-3k}$
- 3)  $9^{2m} \cdot 9^{3m} = 729$
- 4)  $7^{3a+1} \cdot 7^{4a} = 7^{4a}$
- 5)  $2^{-2x} \cdot 2^{-4x} = \frac{1}{4}$
- 6)  $2^{4x+1} \cdot 4 = 2^{2d}$
- 8)  $\frac{10^{2x}}{10^{4x-2}} = 10^{3y}$
- 9)  $\left(\frac{1}{2}\right)^{x+1} \cdot 4^{2x} = \frac{1}{4}$
- 10)  $10^{2a-1} = 1000$
- 11)  $8^{-2a+3} = 8^{-3a}$
- 12)  $6^{-3b} \cdot 6^{2b} = 36$
- 13)  $6^{3b+3} \cdot 6^{2b} = 6^{2b}$

- (1)  $3 \cos^{-1} x = 2x + \cos^{-1}(4x^2 - 3x)$ , if  $-1 \leq x \leq \frac{1}{2}$
- (2)  $2 \tan^{-1} x = \tan^{-1}\left(\frac{2x}{1-x^2}\right)$ , if  $-1 < x \leq 1$
- (3)  $2 \tan^{-1} x = \pi + \tan^{-1}\left(\frac{2x}{1-x^2}\right)$ , if  $x > 1$
- (4)  $2 \tan^{-1} x = -\pi + \tan^{-1}\left(\frac{2x}{1-x^2}\right)$ , if  $x < -1$
- (5)  $2 \tan^{-1} x = \sin^{-1}\left(\frac{2x}{1+x^2}\right)$ , if  $-1 \leq x \leq 1$
- (6)  $2 \tan^{-1} x = \pi - \sin^{-1}\left(\frac{2x}{1+x^2}\right)$ , if  $x > 1$
- (7)  $2 \tan^{-1} x = -\pi - \sin^{-1}\left(\frac{2x}{1+x^2}\right)$ , if  $x < -1$
- (8)  $2 \tan^{-1} x = \cos^{-1}\left(\frac{1-x^2}{1+x^2}\right)$ , if  $0 \leq x < \infty$

$$\frac{d}{dx}(\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx}(\cos^{-1} x) = -\frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx}(\tan^{-1} x) = \frac{1}{1+x^2}$$

$$\frac{d}{dx}(\cot^{-1} x) = -\frac{1}{1+x^2}$$

$$\frac{d}{dx}(\sec^{-1} x) = \frac{1}{x\sqrt{x^2-1}}$$

$$\frac{d}{dx}(\csc^{-1} x) = -\frac{1}{x\sqrt{x^2-1}}$$



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