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**ORIGINS** point out the life story and key discoveries of people who helped in the development of calculus. Isaac Newton (1643–1727) was an English natural philosopher, mathematician, and astronomer. His contributions include the binomial series which is still used in all areas of pure mathematics. He also discovered that the length of a pendulum can be determined by measuring the volume of water displaced. He also discovered the principle of conservation of momentum in the study of motion. He also made contributions to the mathematical analysis of fluid motion and optics. He formulated the binomial series and the binomial theorem. He also discovered the binomial theorem and the binomial series. He also discovered the binomial theorem and the binomial series.

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**CAUTION** notes warn you about potential misconceptions and pitfalls.

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**EXAMPLE 4** Finding an Equation of a Tangent Line

The function  $f(x) = \arcsin x$ ,  $x \in [-1, 1]$ , is continuous and has an inverse function  $g$ . Find an equation for the tangent line to the graph of  $g$  at the point  $(0, 2\pi/3)$ .

**Solution** The slope of the tangent line to the graph of  $g$  at the point  $(0, 2\pi/3)$  is  $g'(0)$ . Since  $f$  and  $g$  are inverses,  $g(0) = 2\pi/3$  and  $f(2\pi/3) = 0$ . Now use  $(f \circ g)'(0) = 1$ .

$$g'(0) = \frac{1}{f'(g(0))} = \frac{1}{f'(2\pi/3)} = \frac{1}{-\sqrt{1 - \sin^2(2\pi/3)}} = \frac{1}{-\sqrt{1 - 3/4}} = \frac{1}{-1/2} = -2$$

Now use the point-slope form of an equation of a line to find an equation of the tangent line to  $g$  at  $(0, 2\pi/3)$ .

$$y - 2\pi/3 = -2(x - 0) \\ 3y - 2\pi = -6x \\ 6x + 3y - 2\pi = 0$$

The line  $6x + 3y - 2\pi = 0$  is tangent to the graph of  $g$  at the point  $(0, 2\pi/3)$ .

**Now Work** PROBLEM 11 and AP<sup>®</sup> Practice Problem 7

**2** Find the Derivative of the Inverse Trigonometric Functions. Table 1 lists the inverse trigonometric functions and their domains.

**TABLE 1** The Derivatives of the Inverse Trigonometric Functions

$f$	Restricted Domain	$f'(x)$	Domain
$f(x) = \arcsin x$	$[-\pi/2, \pi/2]$	$f'(x) = \frac{1}{\sqrt{1-x^2}}$	$(-1, 1)$
$f(x) = \arccos x$	$[0, \pi]$	$f'(x) = \frac{-1}{\sqrt{1-x^2}}$	$(-1, 1)$
$f(x) = \arctan x$	$(-\pi/2, \pi/2)$	$f'(x) = \frac{1}{1+x^2}$	$(-\infty, \infty)$
$f(x) = \operatorname{arccot} x$	$(0, \pi)$	$f'(x) = \frac{-1}{1+x^2}$	$(-\infty, \infty)$

**CAUTION** notes warn you about potential misconceptions and pitfalls.

The table also lists the derivatives of  $\arcsin x$ ,  $\arccos x$ ,  $\arctan x$ , and  $\operatorname{arccot} x$ . We will derive these derivatives and differentiate implicitly with respect to  $x$ .

$$\frac{d}{dx} \arcsin x = \frac{1}{\sqrt{1-x^2}} \quad \frac{d}{dx} \arccos x = \frac{-1}{\sqrt{1-x^2}} \\ \frac{d}{dx} \arctan x = \frac{1}{1+x^2} \quad \frac{d}{dx} \operatorname{arccot} x = \frac{-1}{1+x^2}$$

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