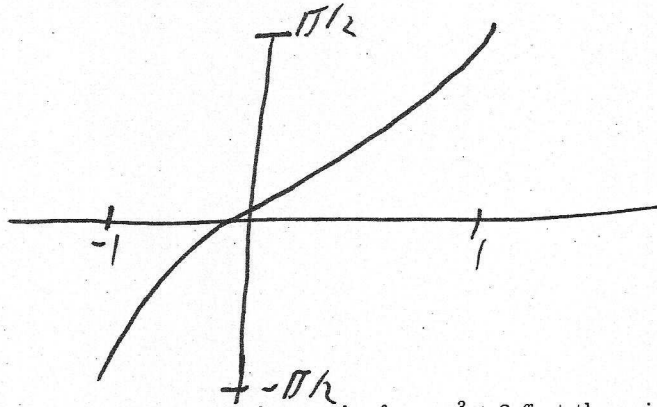


Name:

SOLUTIONS

Quiz #4 - October 8, 2007

1. Neatly sketch the graph of the function $y = \sin^{-1}(x)$.



2. Find the equation of the tangent line to the graph of $y = x^3 + 2e^x$ at the point $(0, 2)$.

$$y' = 3x^2 + 2e^x$$

$$\text{slope} = y'(0) = 2$$

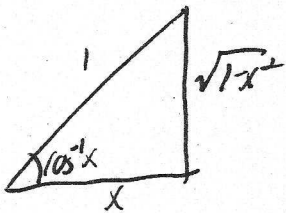
$$y - 2 = 2x$$

Name:

SOLUTIONS

Quiz #5 - October 10, 2007

1. Evaluate $\tan(\cos^{-1}(x))$.



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

2. Find the derivative of

$$g(t) = \frac{2t}{4+t^2}$$

$$\frac{(4+t^2)2 - 2t \cdot 2t}{(4+t^2)^2} = \frac{8-2t^2}{(4+t^2)^2}$$