

PRINT your name \_\_\_\_\_

**Quiz for April 6, 2009 – 8:00 section**

**Remove everything from your desk except this page and a pencil or pen.**

**Circle** your answer. Show your work.

The quiz is worth 5 points.

Let  $y = x \arcsin(2x)$ . Find  $\frac{dy}{dx}$

**Answer:** We see that

$$\frac{dy}{dx} = \frac{2x}{\sqrt{1-4x^2}} + \arcsin(2x).$$