Written HW8 – MATH 2501 Fall 2020

Due by 25 September for timely completion credit

Determine $\dfrac{\mathrm{d}}{\mathrm{d}x}\arcsin(x)$ by starting with $y = \arcsin(x)$, rewriting it as $\sin(y) = x$, and then using implicit differentiation (i.e. the chain rule). Full credit is only awarded if this is worked out entirely symbolically and an appropriate triangle is drawn (as was done in class for similar problems).