Derivative Review Worksheet

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1   Exercises

I. Use the limit definition of the derivative to find $\frac{d}{dx}\frac{1}{x}$.

II. Use derivative rules to evaluate $\frac{d}{dx}e^{x^2}\sin\left(\sqrt{x^2+3x+5}\right)$.

III. Use implicit differentiation to determine the derivative of $\arcsin(x)$.