

Honors Math 182 Quiz 10 Version A

1. State the Taylor series for $f(x) = \ln x$ when $a = 0$ and $b = x$.

2. Find $\int_0^1 x\sqrt{1-x} dx$.

3. Find $\lim_{x \rightarrow 0} \frac{x \sin x + \ln(1 - x^2)}{x^4}$.

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4. State the Taylor series for $f(x) = \cos x$ when $a = 0$ and $b = x$.

5. Find $\int_0^1 \sqrt{1-x^2} dx$

6. Find $\lim_{x \rightarrow 0} \frac{x^4}{1 - \cos(x^2)}$