

Mathematics II

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Exam 2

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1. Sketch the curve $r = 3 - 2 \cos t$ and then find the area enclosed by it.
2. Find the interval of convergence for the power series.

$$\sum \frac{(-1)^n \times (x+2)^n}{2^n}$$

3. Find the Taylor series for $f(x) = \sin x$ centered at $a = \pi$.