

Math 276 Discussion Worksheet 17

1. $\arccos(x^2) \frac{-2x}{\sqrt{1-x^4}} - \arctan(x^2) \frac{2x}{1+x^4}$
2. $1/24, e$
3. $\log \log x + C$
4. -2π
5. convergence: $\alpha \in \mathbb{R}$; absolute convergence: $\alpha > 1$
6. $\pi^3/12$
7. interval of convergence: $(-1, 1)$
8. radius of convergence: 1