

Name _____ Quiz 3

1) Find the Taylor series of the function below, centered at $x = -1$

$$f(x) = (2 - x)^{-3}$$

2) Determine whether the series below converges or diverges. Circle which test(s) you use.

[Divergence Test] [Integral Test] [Comparison Test] [Limit Comparison Test] [Ratio Test] [Root Test] [Geometric Series] [p-Series] [Alternating Series]

$$\sum_{n=5}^{\infty} \frac{n + \ln(n)}{n^2}$$