

Name _____ Quiz 3

1) Determine whether the series 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]

$$\sum_{k=0}^{\infty} \frac{1}{k^2 + 1}$$

2) Determine whether the series 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]

$$\sum_{k=2}^{\infty} \frac{1}{k^2 - 1}$$

3) Determine whether the series 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]

$$\sum_{k=0}^{\infty} \frac{3^k}{k!}$$