

Worksheet 11.5 & 11.4

Full Name: _____ Score: _____

1. Test the series for convergence or divergence using the **Alternating Series Test**.

(a)
$$\sum_{n=1}^{\infty} (-1)^n \frac{3n-1}{2n+1}$$

(b)
$$\sum_{n=1}^{\infty} (-1)^n \frac{n^2}{n^3+4}$$

(c)
$$\sum_{n=2}^{\infty} \frac{\cos(n\pi)}{\sqrt{n}}$$