4. [7 points] Determine if the following series converges or diverges using the Limit Comparison <u>Test</u>, and circle the corresponding word. Fully justify your answer including using proper notation and showing mechanics of any tests you use.

$$\sum_{n=1}^{\infty} \frac{2n-1}{\sqrt{9n^4 - 10n + 3}}$$

Circle one:

Converges

Diverges

Justification (using the Limit Comparison Test):