

**Section 11.4: Additional Problems**

1) Does this series converge or diverge?

$$\sum_{n=1}^{\infty} \frac{\sqrt[3]{n^2 + 4}}{6n^2 - n - 1}$$

2) Does this series converge or diverge?

$$\sum_{n=4}^{\infty} \frac{1}{\sqrt[3]{n^2 - 3}}$$

3) Does this series converge or diverge?

$$\sum_{n=1}^{\infty} e^{1/n} - \cos\left(\frac{1}{n}\right)$$

4) Does this series converge or diverge?

$$\sum_{n=1}^{\infty} \frac{1 + 2^n}{1 + 3^n}$$

5) Does this series converge or diverge?

$$\sum_{n=5}^{\infty} \frac{1}{\sqrt[3]{n^2 - 3}}$$

6) Does this series converge or diverge?

$$\sum_{n=1}^{\infty} \frac{3^n - 1}{5n + 4^n}$$