Math 253 5/2/2017 Class Activity **Names:**

1. $\sum_{n=1}^{\infty} \frac{n}{\sqrt{n^5+1}}$ converges diverges Test:

2. $\sum_{n=1}^{\infty} \frac{n!}{e^n}$ converges diverges Test:

3. $\sum_{n=1}^{\infty} \frac{n^2}{2^n}$ converges diverges Test:

4. $\sum_{n=1}^{\infty} \frac{\sin^2 n}{n^2}$ converges diverges Test:

5. $\sum_{n=1}^{\infty} \frac{n}{\sqrt{n^3+1}}$ converges diverges Test:

6. $\sum_{n=1}^{\infty} \frac{2^n}{n}$ converges diverges Test:

7. $\sum_{n=1}^{\infty} \frac{1}{n2^n}$ converges diverges Test:

8. $\sum_{n=1}^{\infty} \frac{2^n}{n!}$ converges diverges Test: