If you think some of these are wrong, please email me.

Series Mish-Mash

- 1. Determine whether each of the following series is absolutely convergent, conditionally convergent, or divergent. Are there any other tests that would have worked?
 - (a) AC

(j) AC

(s) AC

(b) AC

(k) D

(t) AC

(c) AC

(l) D

(u) D

(d) CC

(e) AC

(m) AC

(v) D

(f) AC

(n) AC

(w) AC

(g) D

(o) D

(h) AC

(p) CC

(x) D

(q) AC

(y) D

(i) AC

(r) D

(z) CC

- 2. AC: 1 < p, CC: $0 D: <math display="inline">p \leq 0$
- 3. p > 1
- 4. Both converge
- 5. $\sum \frac{2+\sin n}{n}$
- 6. State the conditions necessary to use each of the following tests:
 - (a) pos, decreasing, f must be cts
 - (b) pos
 - (c) b_n dec, $\lim = 0$. Must be alternating
 - (d) $L \neq 1$