## 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
(m) AC
(e) AC
(n) AC
(f) AC
(o) D
(v) D
(w) AC
(g) D
(p) CC
(x) D
(h) AC
(q) AC
(y) D
(i) AC
(r) D
(z) CC
2. $\mathrm{AC}: 1<p, \mathrm{CC}: 0<p \leq 1, \mathrm{D}: p \leq 0$
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) $L \neq 1$
