**MATH 162 Practice QUIZ V**

1. For each numerical series below, determine *convergence* or *divergence*. In the case of convergence, determine if the series converges *absolutely* or *conditionally*. Justify each answer.

















2. For each of the following numerical series, determine if the series *diverges*, *converges conditionally* or *converges absolutely*. Justify your answers!

(a) 

(b) 

(c) 

(d) 

(e) 

(f) 

3. For each of the following *power series*, determine the *interval of convergence*. Do not study end-point behavior.

(a) 

(b) 

(c) 

(d) 

(e) 

(f) 

*Pure mathematics is, in its way, the poetry of logical ideas.*

- Albert Einstein