Math 141 **name**_____

Quiz 6

Due Monday April 4 in class

- Test the series for convergence or divergence.
- Name the test used, and support your conclusion.
- Whenever possible, find the sum, if convergent.

$\sum_{n=1}^{\infty} \frac{n}{n^2+1}$ Test/name: Support/Reasons: Converge/Diverge: Sum, if possible:	$\sum_{n=0}^{\infty} (-1)^n \frac{1}{n+1}$ Test/name: Support/Reasons: Converge/Diverge: Sum, if possible:

$\sum_{n=1}^{\infty}(-1)^{n+1}\frac{2}{5^{n-1}}$ Test/name: Support/Reasons: Converge/Diverge: Sum, if possible:	$\sum_{n=1}^{\infty}\frac{2^n}{n!}$ Test/name: Support/Reasons: Converge/Diverge: Sum, if possible:

$1+\frac{1}{4\sqrt{2}}+\frac{1}{9\sqrt{3}}+\frac{1}{32}+\frac{1}{25\sqrt{5}}+\ldots$ $\sum_{n=1}^{\infty}$ Test/name: Support/Reasons: Converge/Diverge: Sum, if possible:	$\frac{1}{2}+\frac{1}{5}+\frac{1}{10}+\frac{1}{17}+\frac{1}{26}+\frac{1}{37}+\ldots$ $\sum_{n=1}^{\infty}$ Test/name: Support/Reasons: Converge/Diverge: Sum, if possible: