Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 July 20**	

Standard: This student is able to...	Mark:
S14: CompTests. Use the comparison tests to determine series convergence.	
3/3 ⋆ reattempt due on:	

Does $\displaystyle\sum_{n=2}^{\infty} \frac{5n}{n^3 - 1} = \frac{10}{7} + \frac{15}{26} + \frac{20}{63} + \ldots$ converge or diverge?

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J#:	**In-Class (1AP)**
Date: **2017 July 20**	

Standard: This student is able to...	Mark:
C13: SerTech. Identify series as convergent or divergent along with appropriate techniques to determine convergence or divergence. 2/4 ⋆ reattempt due on:	

For each series, choose **one** technique that would be appropriate to determine convergence/divergence. (There may be multiple correct responses.) Then choose whether the series is convergent or divergent. You do not need to show your work.

$\sum_{k=1}^{\infty} \frac{3^k}{(k+1)5^k}$ $\qquad\qquad$ $\sum_{m=3}^{\infty} \left(\frac{5}{m} - \frac{5}{m+1} \right)$ $\qquad\qquad$ $\sum_{n=2}^{\infty} \frac{2^n}{n!}$

- Partial Sum Sequence
- Divergence Test
- Geometric Series Test
- Alternating Series Test
- Integral Test
- p-Series Test
- Ratio Test
- Root Test
- Direct/Limit Comp. Test

- Converges
- Diverges

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J#:	**In-Class (1AP)**
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Standard: This student is able to...	Mark:
C14: PowSer. Identify the domain of a function defined as a power series.	
1/4 ⋆ reattempt due on:	

Find the domain of $f(x) = \sum_{k=2}^{\infty} \frac{(x-3)^k}{k^2+1}$. (For each endpoint, if they exist, write the appropriate series, but you do not need to show your work in determining if the series converges or diverges.)