

Name:	Exercise Type (Cost): In-Class (1AP)
J#:	
Date: 2017 July 21	

Standard: This student is able to...	Mark:
C13: SerTech. Identify series as convergent or divergent along with appropriate techniques to determine convergence or divergence. 3/4	<hr/> ★ 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.

$$\sum_{k=0}^{\infty} \frac{9}{k^2+4}$$

$$\sum_{m=3}^{\infty} \frac{m}{10}$$

$$\sum_{n=2}^{\infty} 2(-\frac{6}{5})^n$$

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|---|---|---|
| <ul style="list-style-type: none">• Partial Sum Sequence• Divergence Test• Geometric Series Test• Alternating Series Test• Integral Test• p-Series Test• Ratio Test• Root Test• Direct/Limit Comp. Test | <ul style="list-style-type: none">• Partial Sum Sequence• Divergence Test• Geometric Series Test• Alternating Series Test• Integral Test• p-Series Test• Ratio Test• Root Test• Direct/Limit Comp. Test | <ul style="list-style-type: none">• Partial Sum Sequence• Divergence Test• Geometric Series Test• Alternating Series Test• Integral Test• p-Series Test• Ratio Test• Root Test• Direct/Limit Comp. Test |
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Standard: This student is able to...	Mark:
C14: PowSer. Identify the domain of a function defined as a power series.	
2/4	★ reattempt due on:

Find the domain of $f(x) = \sum_{m=0}^{\infty} (-1)^m \frac{x^{2m+1}}{(2m+1)!}$. For each endpoint, if they exist, write the appropriate series and label it as converges/diverges, but you do not need to show your work in determining if the series converges or diverges.

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Exercise Type (Cost):
In-Class (1AP)

Standard: This student is able to... C15: TaySer. Generate a Taylor or Maclaurin series from a function.	Mark:
1/3 ★ reattempt due on:	

Generate the MacLaurin series (Taylor series where $a = 0$) for $f(x) = \sin(x)$.