

Name:
J#:
Date: 2017 July 19

Exercise Type (Cost):

In-Class (1AP)

Standard: This student is able to...	Mark:
C10: Polar. Convert and sketch polar and Cartesian coordinates and equations.	
Extra2	<div> <div>★ reattempt due on:</div> <div></div> </div>

Give an inequality involving polar coordinates that describes the fourth quadrant of the xy plane (where x is positive and y is negative).

Name:
J#:
Date: 2017 July 19

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

Standard: This student is able to...	Mark:
S13: RatioRoot. Use the ratio and root tests to determine series convergence.	
3/3	★ reattempt due on:

Use either the Ratio or Root Test to determine whether $\sum_{n=0}^{\infty} \frac{4^n}{3^{2n+1}} = \frac{1}{3} + \frac{4}{27} + \frac{16}{243} + \dots$ converges or diverges.

Name:
J#:
Date: 2017 July 19

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

Standard: This student is able to... S14: CompTests. Use the comparison tests to determine series convergence.	Mark:
2/3 ★ reattempt due on:	

Does $\sum_{m=0}^{\infty} \frac{1}{\sqrt[3]{m^2+1}} = 1 + \frac{1}{\sqrt[3]{2}} + \frac{1}{\sqrt[3]{5}} + \dots$ converge or diverge?

Name:
J#:
Date: 2017 July 19

Exercise Type (Cost):

In-Class (1AP)

Standard: This student is able to...	Mark:
C13: SerTech. Identify series as convergent or divergent along with appropriate techniques to determine convergence or divergence.	
$1/4$	★ 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.

$$\sum_{k=1}^{\infty} \frac{k}{4+k^2}$$

$$\sum_{m=0}^{\infty} \frac{8^m}{3^{m+1}}$$

$$\sum_{n=2}^{\infty} (-1)^n \frac{1}{n^2}$$

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