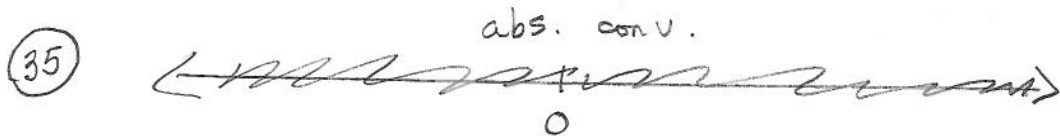
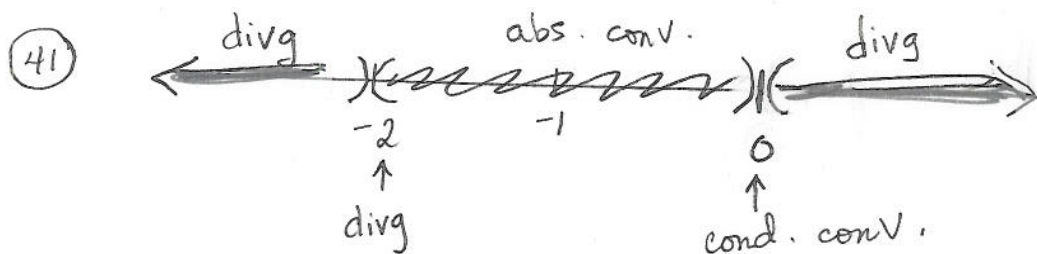


center = 0  
radius of convergence =  $\frac{1}{5}$   
interval of convergence =  $[-\frac{1}{5}, \frac{1}{5}]$

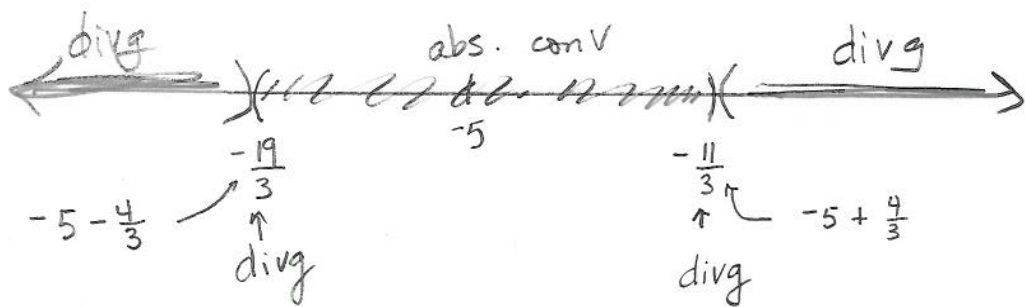


center = 0  
radius of convergence =  $\infty$   
interval of convergence =  $(-\infty, +\infty)$



center =  $-1$   
radius of convergence = 1  
interval of convergence =  $(-2, 0]$

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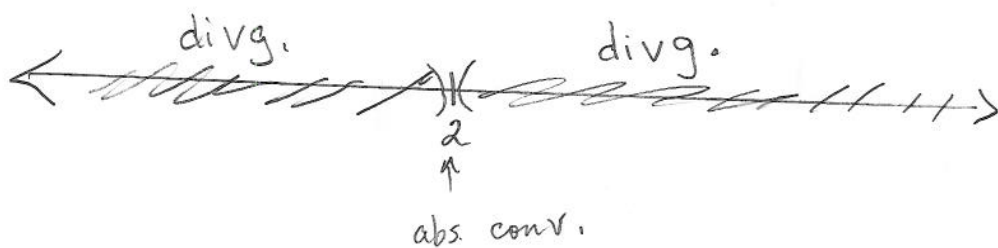
2 of 2

center =  $-5$

radius of convergence =  $\frac{4}{3}$

interval of convergence =  $(-\frac{19}{3}, -\frac{11}{3})$

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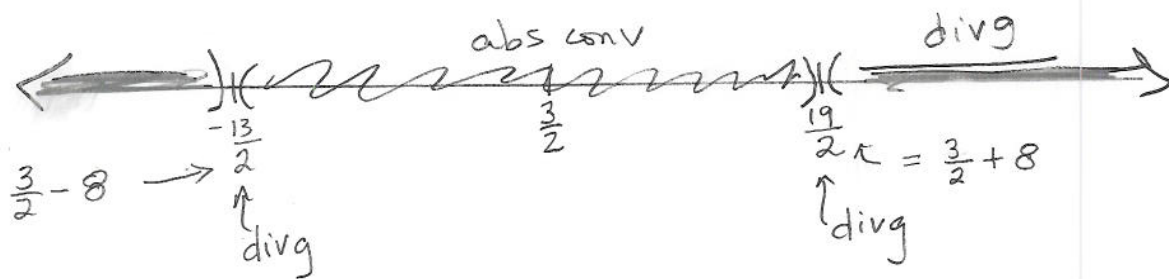
center =  $2$

radius of convergence =  $0$

"interval" of convergence =  $\{2\}$  or  $[2, 2]$   
↑  
the point 2

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$$\sum \frac{(2x-3)^k}{42^k} = \sum \frac{2^k (x - \frac{3}{2})^k}{(42)^k} = \sum \frac{(x - \frac{3}{2})^k}{8^k}$$



center =  $\frac{3}{2}$

radius of convergence =  $8$

interval of convergence =  $(-\frac{13}{2}, \frac{19}{2})$