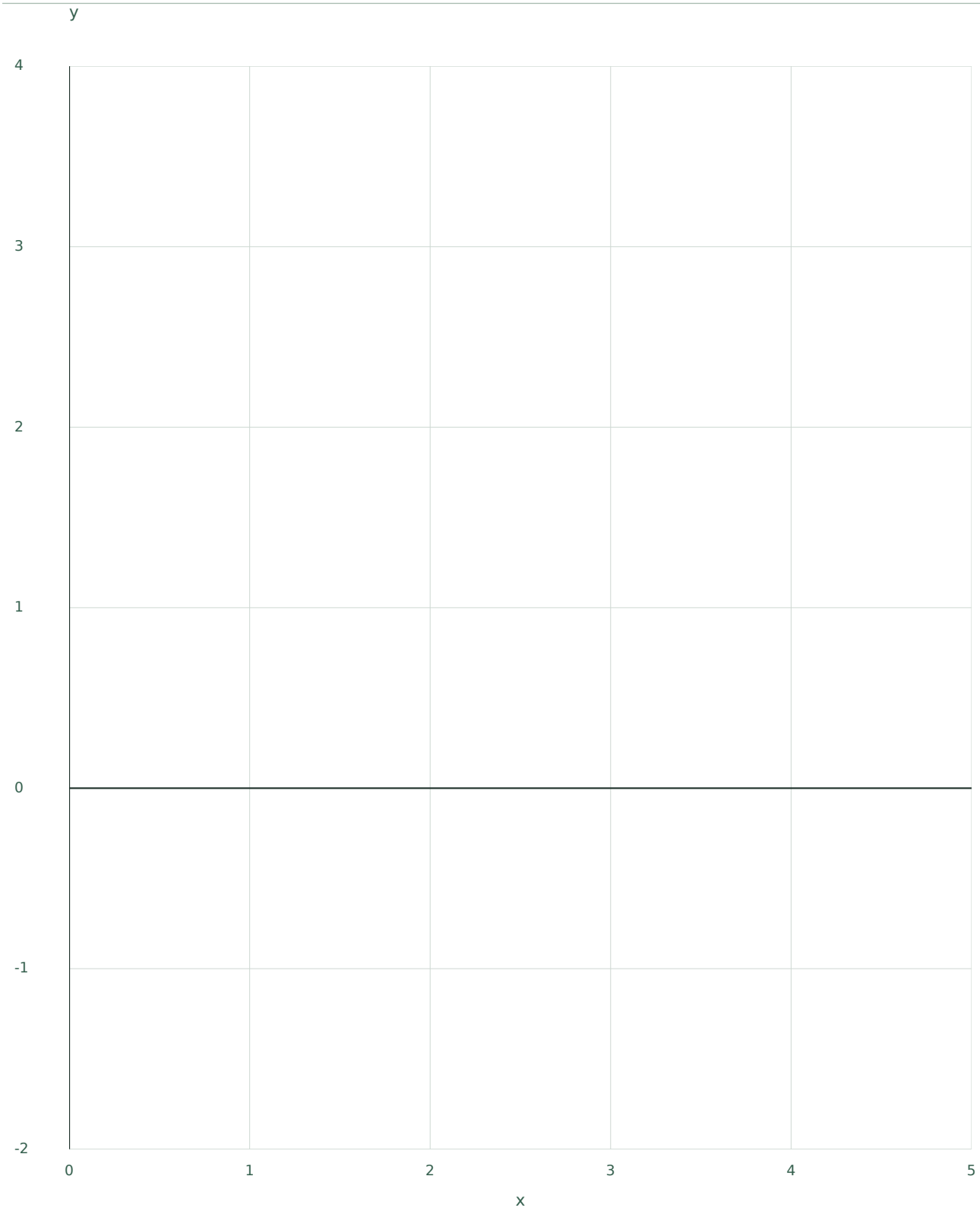
Drawing Reciprocal Graphs with Asymptotes: A Step-by-Step Worksheet Guide

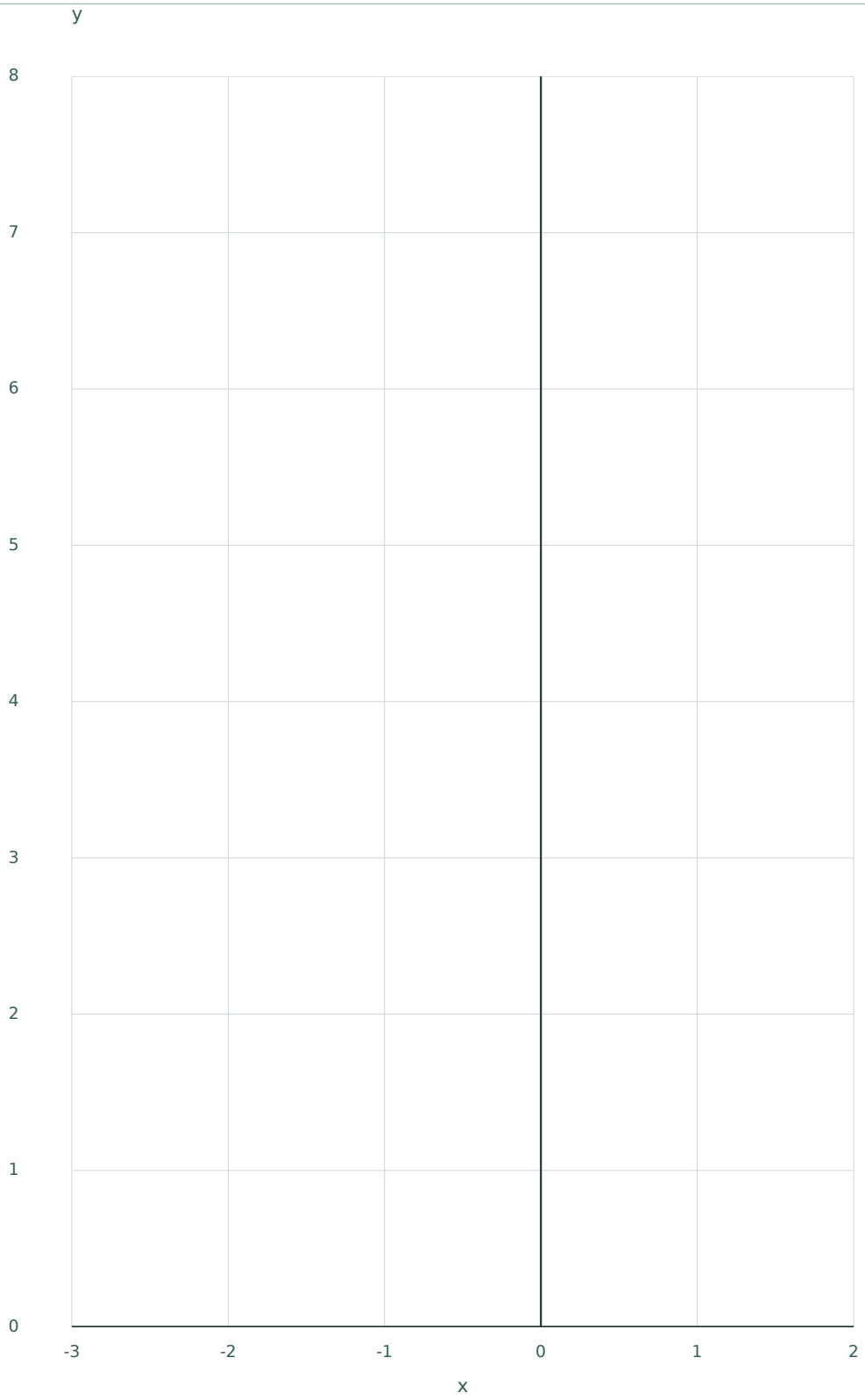
Exercise 1: y = 1/(x - 2) + 1



Mark asymptotes and plot points for x = 0, 1, 1.5, 2.5, 3, and 5.

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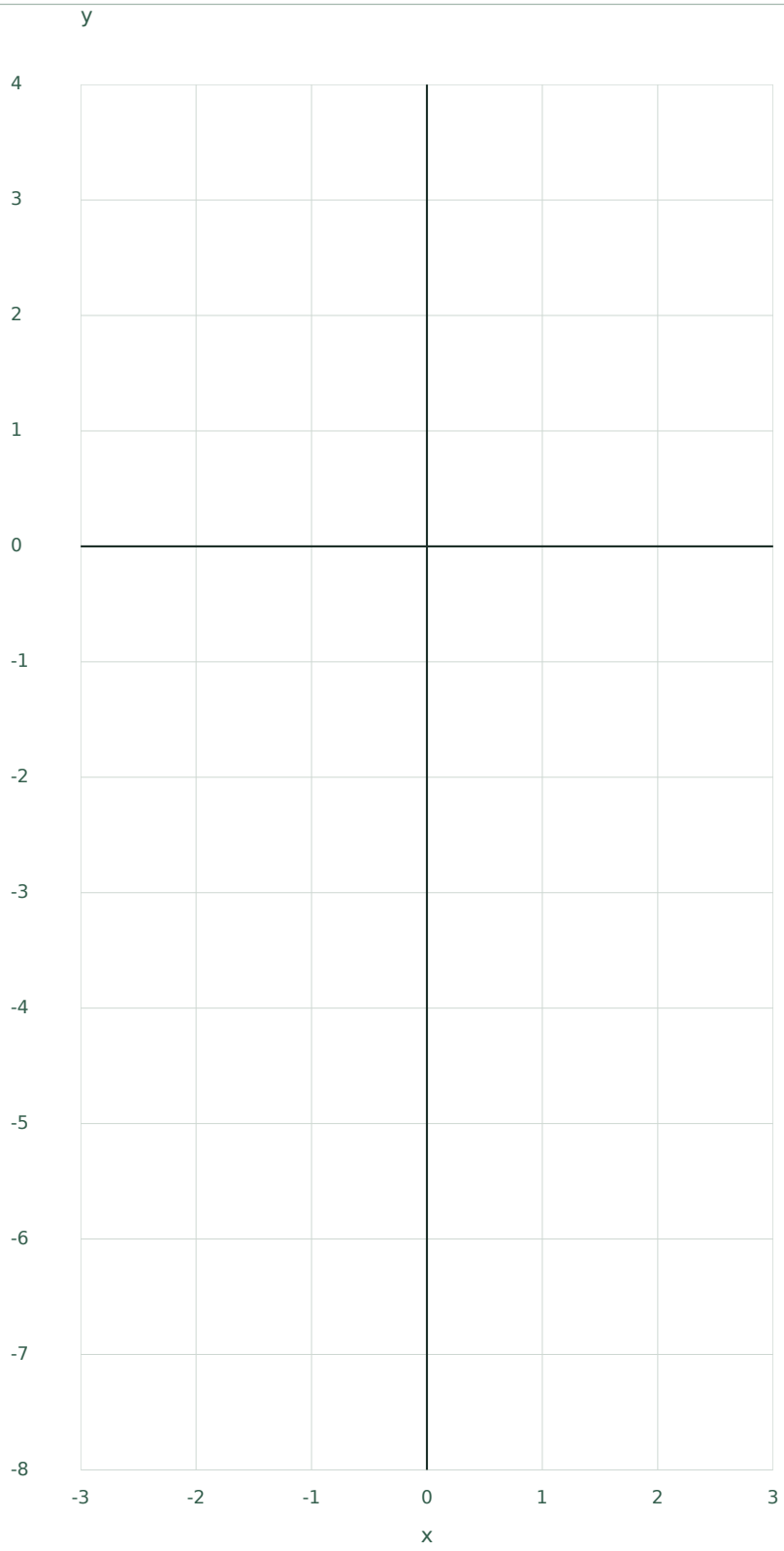
Exercise 2: y = -2/(x + 1) + 4



Mark asymptotes and plot points for x = -3, -2, -1.5, -0.5, 0, and 2.

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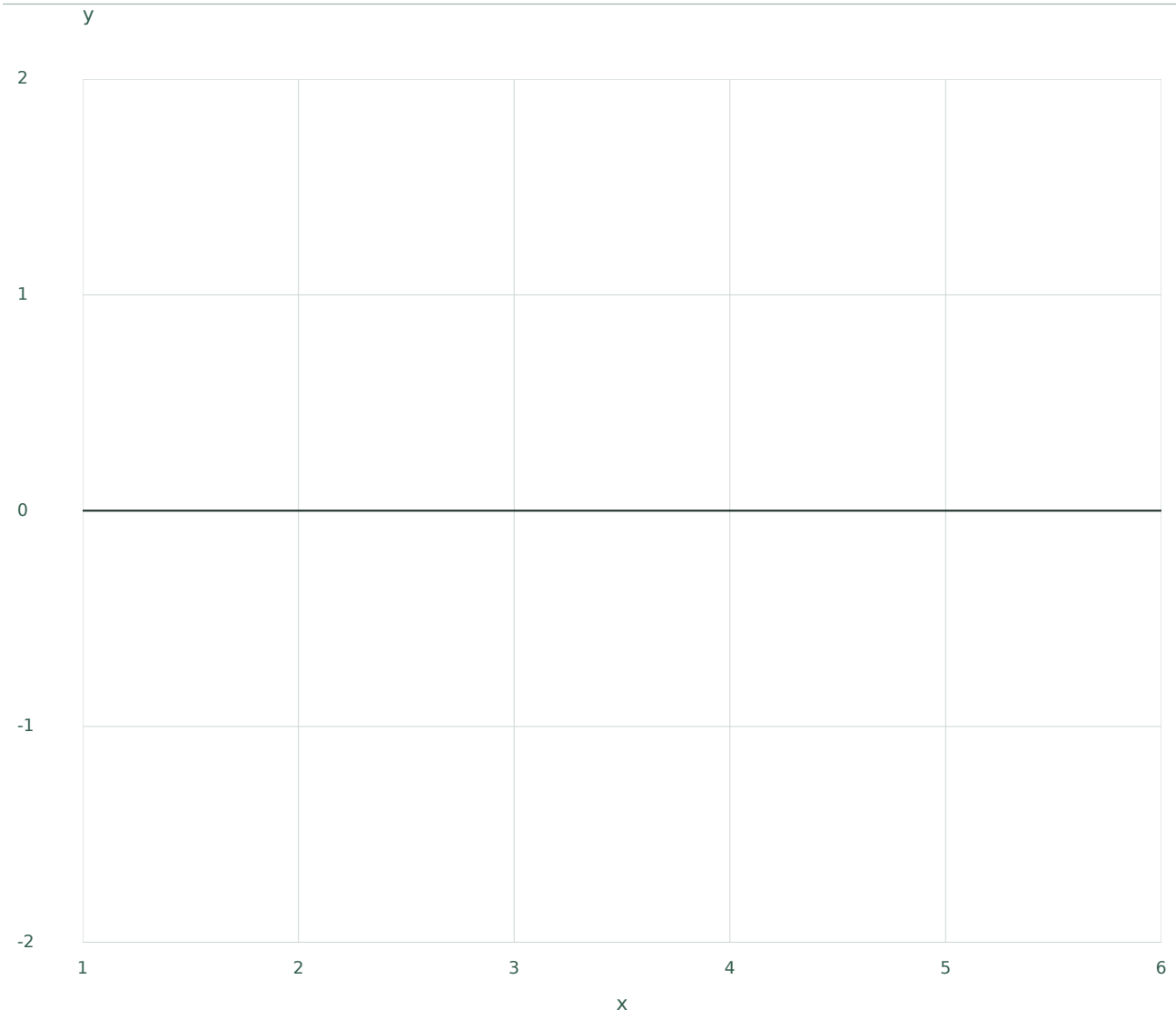
Exercise 3: y = 3/x - 2



Mark asymptotes and plot points for x = -3, -1, -0.5, 0.5, 1, and 3.

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Exercise 4: y = -1/(x - 3)



Mark asymptotes and plot points for x = 1, 2, 2.5, 3.5, 4, and 6.

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Exercise 1 value table

Student fills y-values; x-values given.

x	y
0	
1	
1.5	
2.5	
3	
5	

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Exercise 2 value table

Student fills y-values; x-values given.

x	y
-3	
-2	
-1.5	
-0.5	
0	
2	

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Exercise 3 value table

Student fills y-values; x-values given.

x	y
-3	
-1	
-0.5	
0.5	
1	
3	

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Exercise 4 value table

Student fills y-values; x-values given.

x	y
1	
2	
2.5	
3.5	
4	
6	

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Original tasks 1, 2, 3 / blank responses

Task 1

Draw y = 1/(x - 2) + 1. Mark the asymptotes and plot points for x = 0, 1, 1.5, 2.5, 3, and 5.

Task 2

Draw y = -2/(x + 1) + 4. Mark the asymptotes and plot points for x = -3, -2, -1.5, -0.5, 0, and 2.

Task 3

Draw y = 3/(x - 0) - 2, that is y = 3/x - 2. Mark the asymptotes and plot points for x = -3, -1, -0.5, 0.5, 1, and 3.

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Original tasks 4 / blank responses

Task 4

Draw y = -1/(x - 3) + 0, that is y = -1/(x - 3). Mark the asymptotes and plot points for x = 1, 2, 2.5, 3.5, 4, and 6.