| Names: | |
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| Task: Linear vs. No | nlinear Equations |
| QUESTION: When does an equation make a graph that is linear (a straight line) and when does an equation make a graph that is nonlinear (not a straight line)? Can you <u>predict</u> , just by looking at an equation, if the graph will be linear or not? | |
| <u>Instructions</u> | |
| Go to desmos.com/calculator . There, you can type in any equal your goal is to try to notice some patterns and see if you can which become nonlinear. Keep track of the equations you gra | figure out which types of equations become linear and |
| some with x and y on the same side of the equation if You can easily type a fraction using the / button on the Use the keyboard button on the bottom left to pull unexponents using the ab button, and there are other button. You should definitely experiment with these. | uations use the form $y = $ But you can try f you want. You may also use only x, or only y. |
| These equations turned out linear: | These equations turned out nonlinear: |
| OUR THEORY: An equation will be linear if | An equation will be nonlinear if |