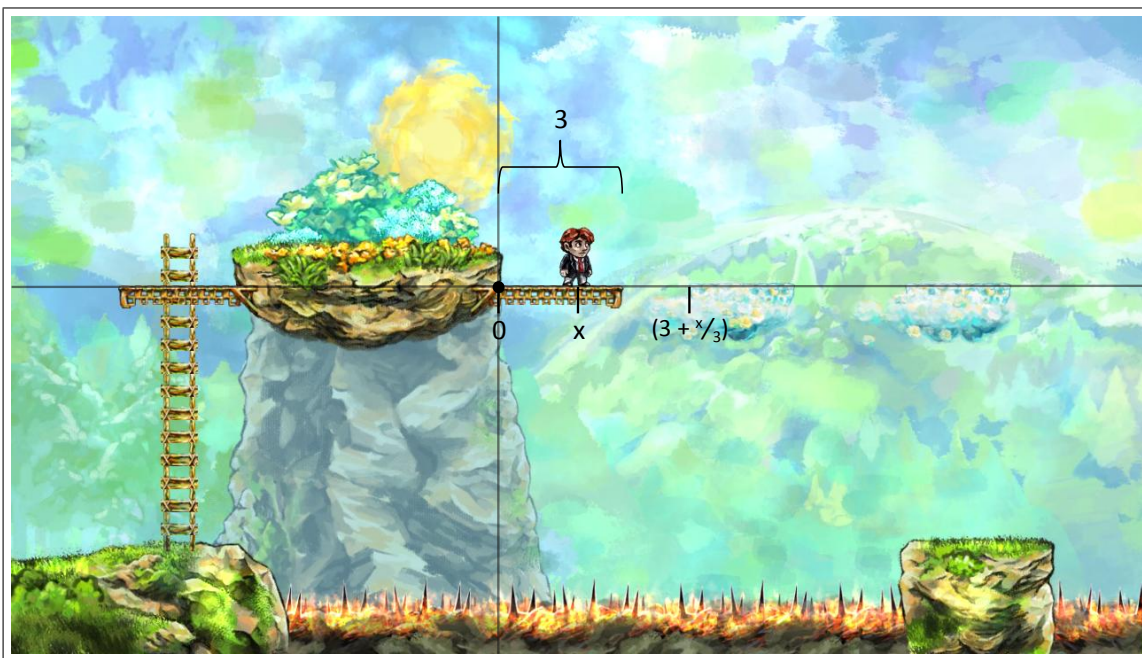


## MATH\*1200 – LAB #1: INTERVALS WITH BRAID

[www.nathanieljohnston.com/math1200/lab1.pdf](http://www.nathanieljohnston.com/math1200/lab1.pdf)

Solution: [www.nathanieljohnston.com/math1200/lab1\\_solution.pdf](http://www.nathanieljohnston.com/math1200/lab1_solution.pdf)



Tim is standing on a platform that is 3 metres wide and has its left edge at 0 metres. He wants to jump onto the cloud platform to his right, but the cloud platform moves to the right as he moves to the right (and it moves to the left if he moves to the left – it tracks his movements, but moves more slowly). In particular, if his current horizontal position is  $x$  metres then the left edge of the cloud platform is located at the point  $3 + \frac{x}{3}$  metres.

Given that Tim can jump 2 metres horizontally, use interval notation to express the set of positions from which Tim can jump to land on the cloud platform.

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