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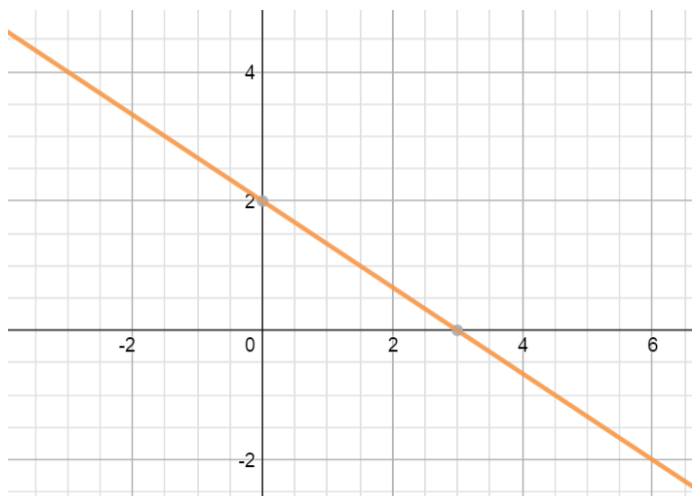
Learning Goals

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The equation for the following line is $y = \dfrac{-2}{3}x + 2$

Pull 3

Ex. 1. Solving a Problem with a Linear Equation

A theatre company is putting on a production where adults are charged $2 and children $1.

- The revenue the company receives, R, is $2x + y = R$, where x is the number of adult tickets sold; y, the number of children's tickets sold.
- The company hopes that they will bring in $750 in revenue for each of the next two shows.
- The number of adult tickets for these shows is 200 and 175, respectively.

ts must be sold for each
ue target?

Ex. 1. Solution

Ex. 2. *Skill-builder*

Converting from *slope-intercept* form TO *standard* form

$$(y = mx + b) \longrightarrow (Ax + By = C)$$

Convert $y = \dfrac{5 - 3x}{2}$ to standard form.

Ex. 3. *Skill-builder*

Converting from *standard* form TO *slope-intercept* form

$$(Ax + By = C) \longrightarrow (y = mx + b)$$

Convert $2x + 3y - 9 = 0$ to slope-intercept form.

Practice

p187 #1, 4aceg, 5, 8 to 10