

HW0

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This is an inline equation $x + y = 3$

This is a displayed equation:

$$x + \frac{y}{z - \sqrt{3}} = 2$$

This is how you define a piece-wise linear function:

$$f(x) = \begin{cases} 3x + 2 & \text{if } x < 0 \\ 7x + 2 & \text{if } x \geq 0 \text{ and } x < 10 \\ 5x + 22 & \text{otherwise.} \end{cases}$$

This is a matrix:

$$\begin{bmatrix} 9 & 9 & 9 & 9 \end{bmatrix}$$