

Iteration



Exit ticket **ANSWERS** Name _____

1 $x_0 = 1$ and $x_{n+1} = \frac{x_n + 11}{3}$

Find x_1 and x_2

$x_1 = 4, x_2 = 5$

2 $x_0 = 2$ and $x_{n+1} = \sqrt{x_n + 10}$

Find x_1 and x_2 to 3 decimal places.

$x_1 = 3.464, x_2 = 3.669$

3 $x_0 = 6$ and $x_{n+1} = \frac{x_n + 18}{4}$

Find x_1 . What do you notice?

$x_1 = 6, \text{ it stays at } 6$

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