

Practice 1: Writing the equation for a line given a table

Number of Minutes Passed (x)	Gallons of Water in Pool
0	0
2	3
4	6
6	9
8	12
10	15

c. $\frac{\text{change } y}{\text{change } x} = \frac{3}{2} = 1.5$

a. Does this appear to be a linear function? How do you know?

b. What is the y-intercept? Interpret its meaning in context.

c. What is the slope? What does it represent?

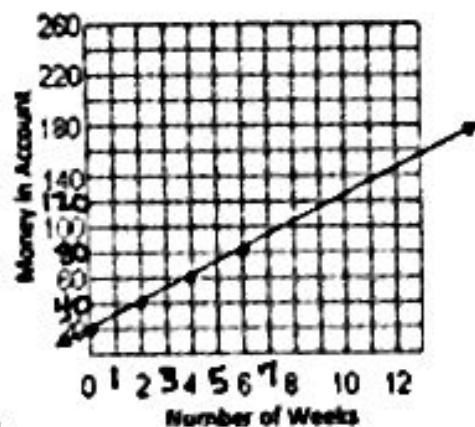
Filling pool: 1.5 gallons/minute

d. Write a NEXT-NOW and Formal rule that describes the pattern. Include the start number (a_0).

e. Write an equation in slope-intercept form to represent the amount of water in the pool (y) after x number of minutes.

f. How many minutes will it take for the pool to have 18 gallons of water in it?

Practice 2: Given a graph



c. $\frac{\text{rise}}{\text{run}} = \frac{\text{up } 20}{\text{over } 2} = 10$

a. Does this appear to be a linear function? How do you know?

b. What is the y-intercept? Interpret its meaning in context.

c. What is the slope? What does it represent?

Gaining \$10 per week

d. Write a NOW-NEXT and Formal rule that describes the pattern. Include the start number (a_0).

e. Write an equation in slope-intercept form to represent the amount of money in the account (y) after x number of weeks.

f. How many weeks will it take for the account to have \$110.00 in it?