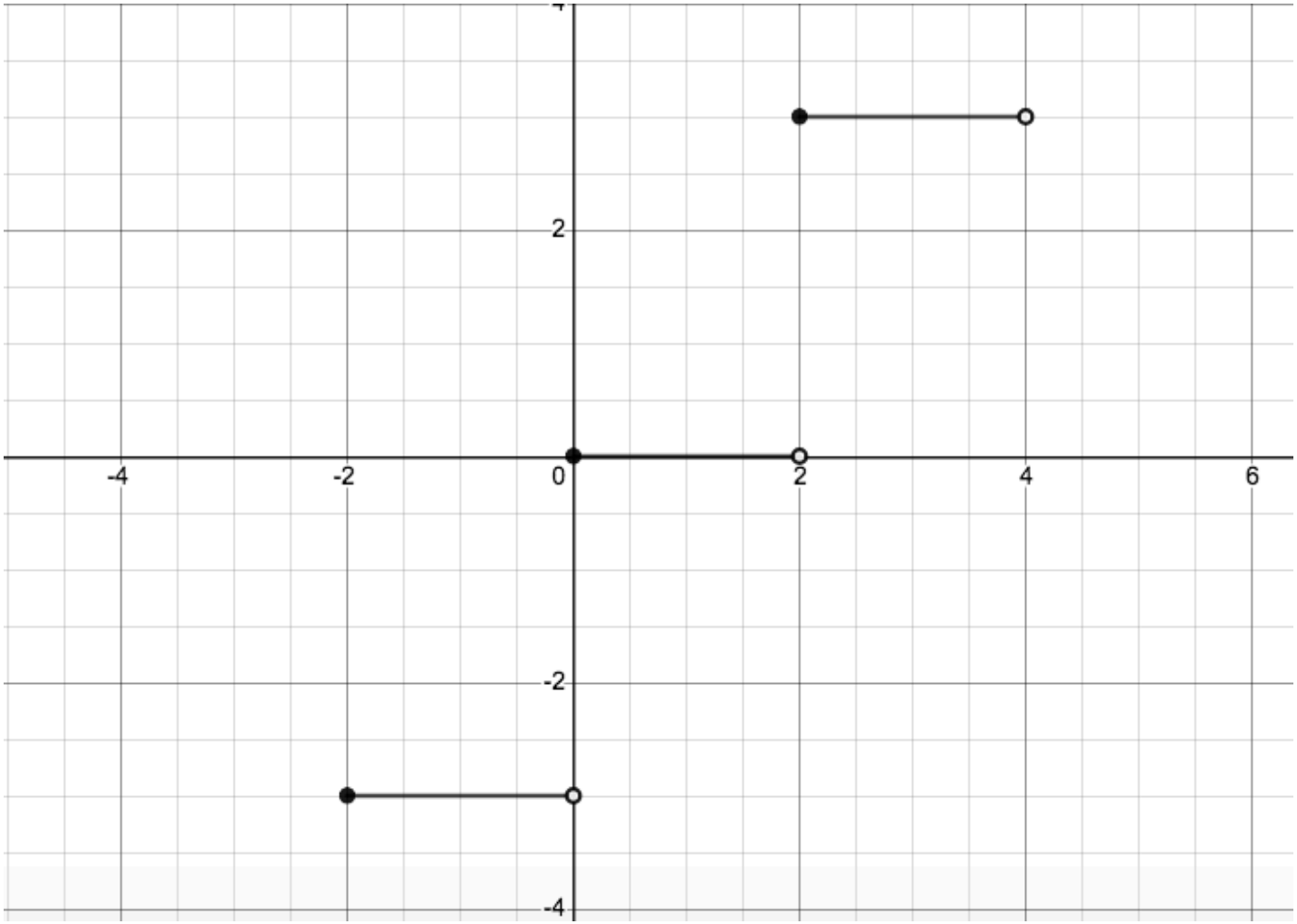
Activity 2.5

1. $y = 3\left[\frac{1}{2}x\right]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = 3	• Vertical stretch	• The vertical distance between each step is 3
b = 1/2	• Horizontal stretch	• The length of each step is |1/b| |1/(1/2)| 2
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ positive	NA	Steps go up

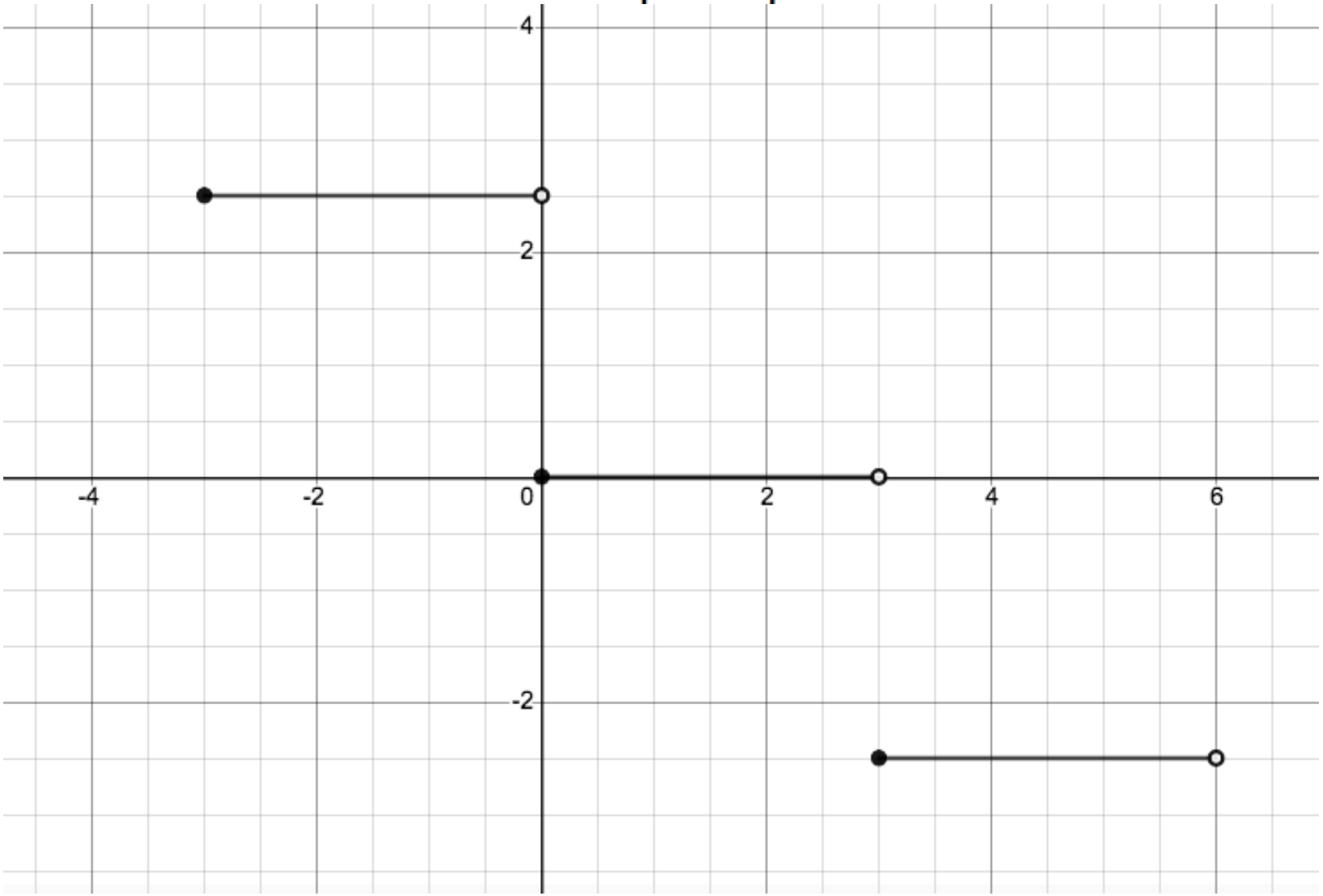
1. $y = 3\left[\frac{1}{2}x\right]$



2. $y = -2.5\left[\frac{1}{3}x\right]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = -2.5	• Vertical stretch • Reflection off the x axis	• The vertical distance between each step is 2.5
b = 1/3	Horizontal stretch	Length step |1/b| |1/(1/3)| 3
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ negative	NA	Steps will go down

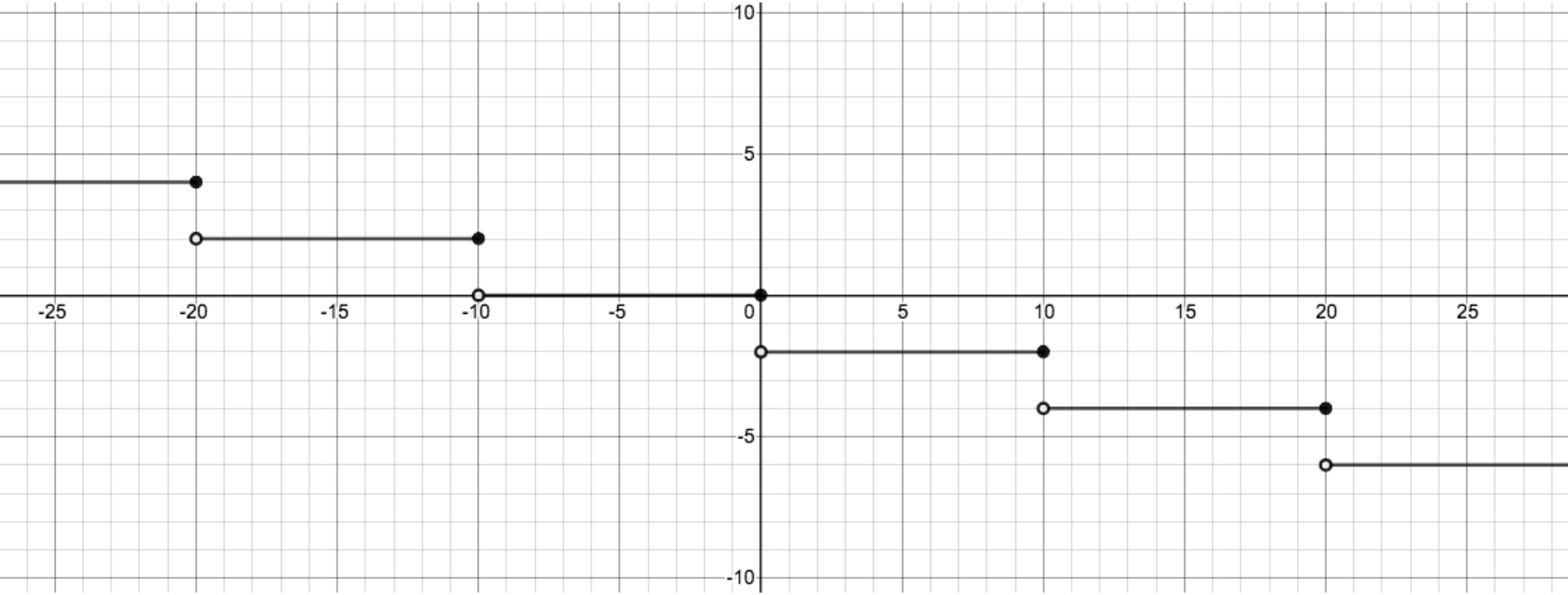
2. $y = -2.5\left\lfloor \frac{1}{3}x \right\rfloor$



3. $y = 2\left[-0.1x\right]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = 2	• Vertical stretch	• The vertical distance between each step is 2
b = -0.1	• Horizontal stretch • Reflection off y - axis	• The length of each step is $\lvert 1/b \rvert$ $\lvert 1/0.1 \rvert = 10$
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ negative	X	Steps will go down

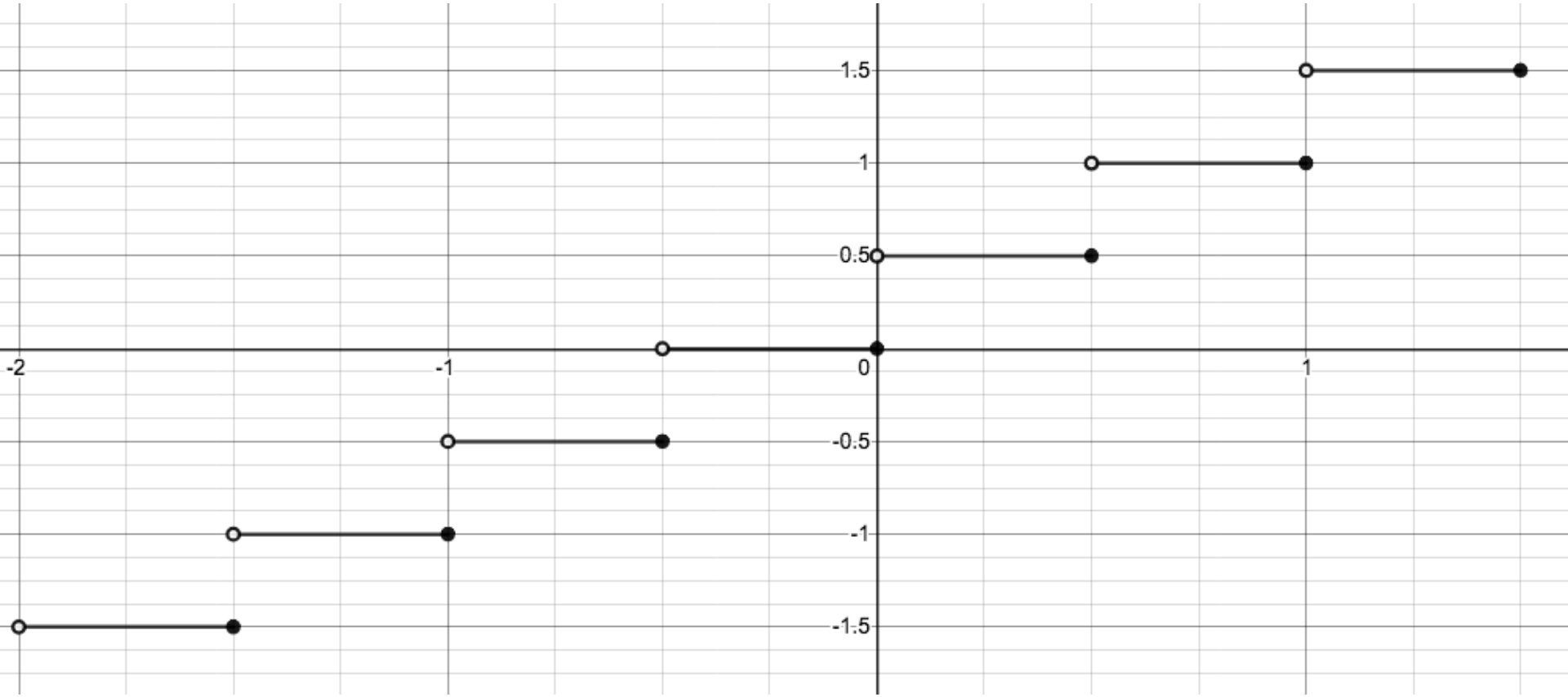
3. $y = 2\left[-0.1x\right]$



4. $y = -0.5[-2x]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = -0.5	• Vertical stretch • Reflection off x - axis	• The vertical distance between each step is 0.5
b = -2	• Horizontal shrink • Reflection off y - axis	• The length of each step is |1/b| |1/2|= 0.5
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ down	X	Steps will go up

4. $y = -0.5\left[-2x\right]$

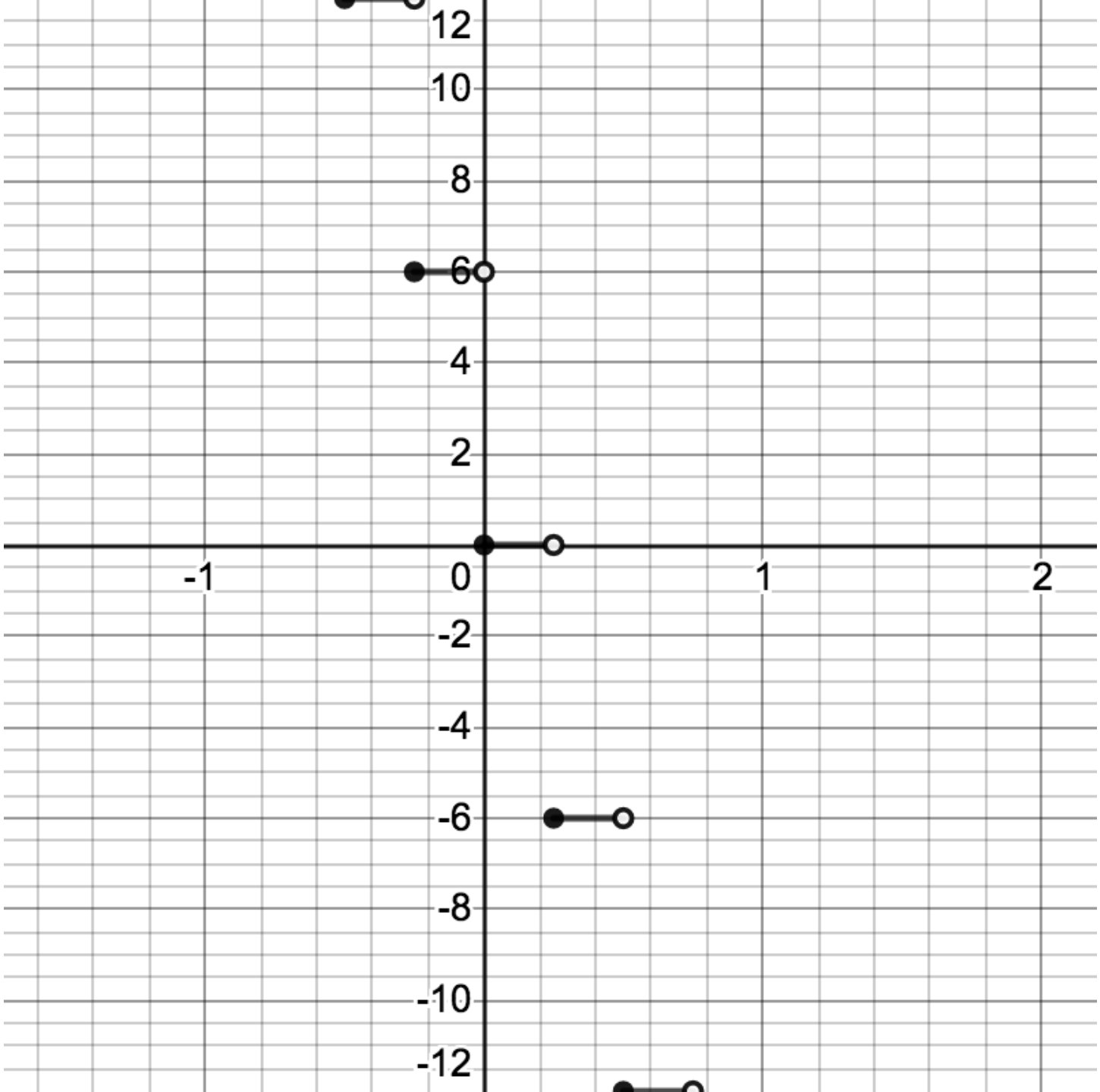


5. $y = -6\left[4x\right]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = -6	• Vertical stretch • Reflection off x - axis	• The vertical distance between each step is 6
b = 4	• Horizontal shrink	• The length of each step is |1/b| |1/4| = 0.25
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ negative	NA	Steps will go down

5.

$y = -6\left[4x\right]$

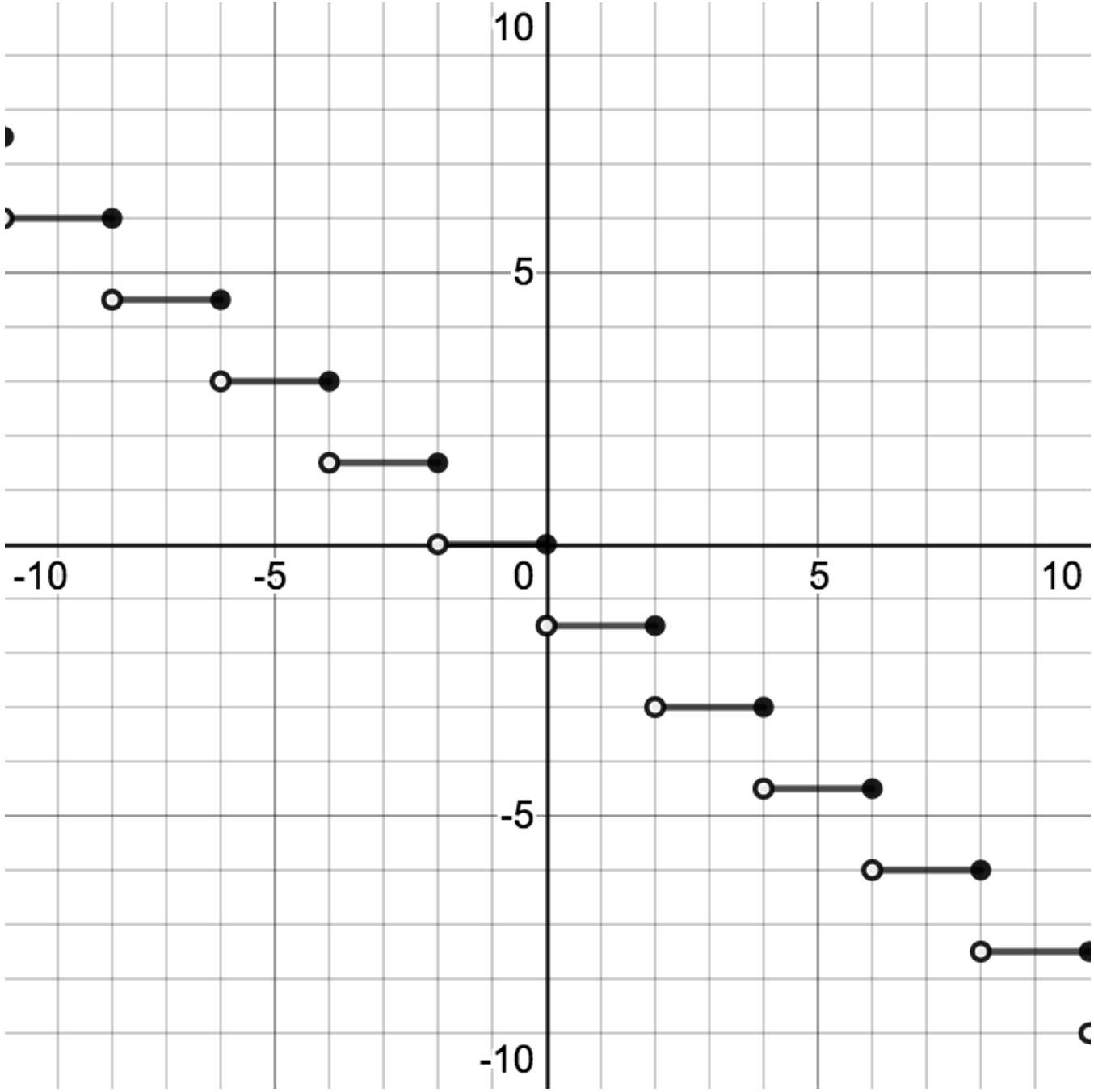


6. $y = 1.5\left[-\frac{1}{2}x\right]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = 1.5	• Vertical stretch	• The vertical distance between each step is 1.5
b = -1/2	• Horizontal shrink • Reflection off y- axis	• The length of each step is |1/b| |1/1/2| = 2
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ negative	NA	Steps will go down

6.

$$y = 1.5\left[-\frac{1}{2}x\right]$$

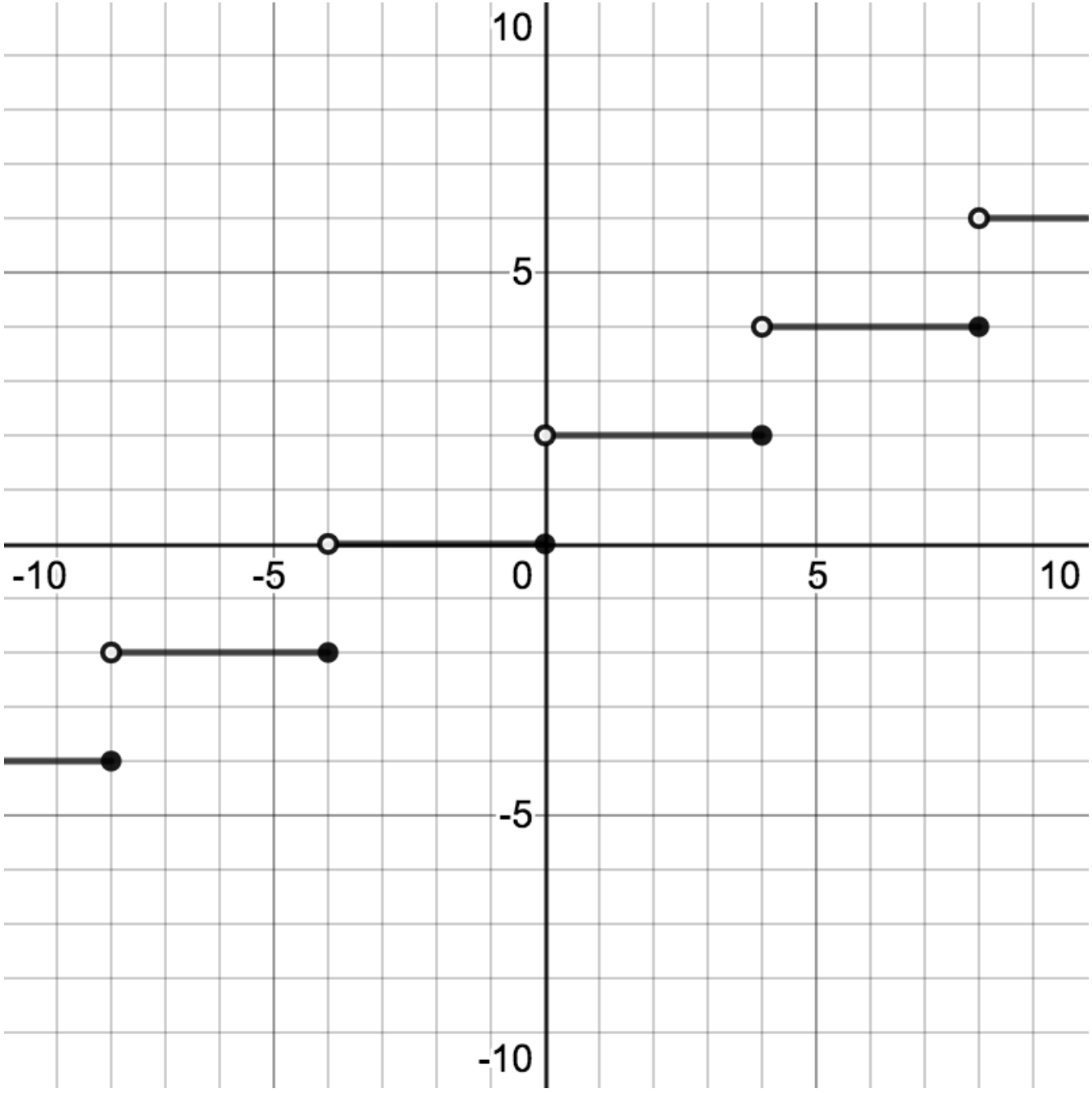


7. $y = -2\left[-\frac{1}{4}x\right]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = -2	• Vertical stretch • reflection off x - axis	• The vertical distance between each step is 2
b = -1/2	• Horizontal stretch • Reflection off y- axis	• The length of each step is |1/b| |1/1/4| = 4
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ positive	NA	Steps will go up

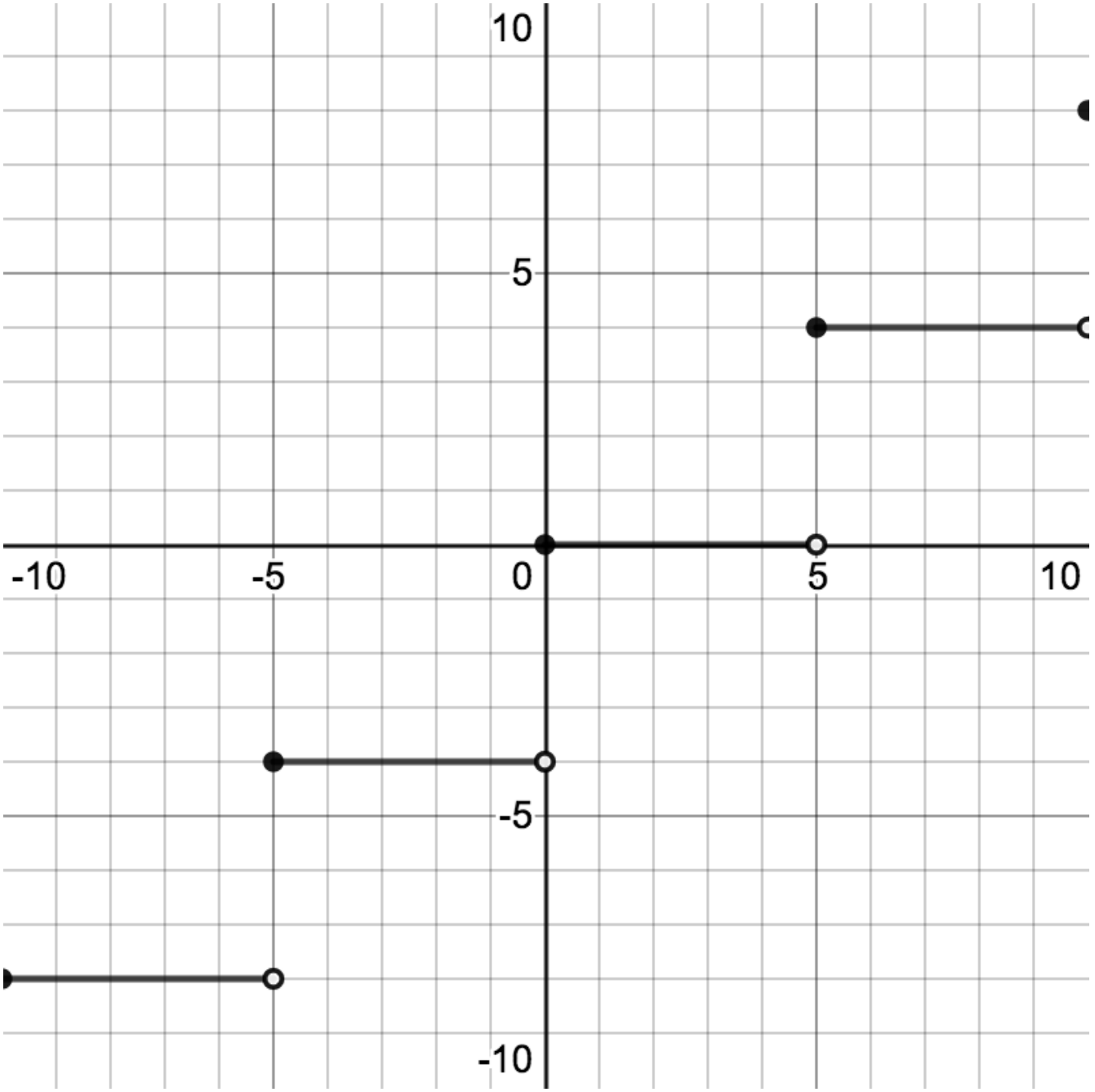
7.

$$y = -2\left[-\frac{1}{4}x\right]$$



8. $y = 4\left[0.2x\right]$

Parameters	Geometric Transformation	Important additional Information This is your personal column
a = 4	• Vertical stretch	• The vertical distance between each step is 4
b = 0.2	• Horizontal stretch	• The length of each step is |1/b| |1/0.2| = 5
(h, k) (0, 0)	basic	Starting point 1st black dot
$a \bullet b =$ positive	NA	Steps will go up

8.

$$y = 4\left[0.2x\right]$$