

POSITIONS OF THE GRAPHS OF ANY TWO FUNCTIONS

Name _____

Class _____

Date _____

A N S W E R S

1a

1b

2a

2b

1.
 - a. Draw the graphs of the functions $y = \frac{1}{2}x + 3$ and $y = \frac{4}{x}$ and find their intersection point(s).
 - b. Draw the graphs of the functions $y = -0,5x + 2$ and $y = \frac{2}{x}$ and find their intersection point(s).

2.
 - a. Draw the graphs of the functions $y = \sqrt{x}$ and $y = 2 - x$. For which values of x will the value of function $y = \sqrt{x}$ be smaller than the value of the function $y = 2 - x$?
 - b. Draw the graphs of the functions $y = \sqrt{x}$ and $y = 6 - x$. For which values of x will the value of function $y = \sqrt{x}$ be bigger than the value of the function $y = 6 - x$?

B

**POSITIONS OF THE
GRAPHS OF ANY
TWO FUNCTIONS**

Name _____

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A N S W E R S

1a

1b

2a

2b

- 1. a. The intersection of the graphs of linear functions**
 $y = 0,5x - 3$, $y = -0,5x - 3$, $y = 6 - x$ **construct a triangle.**
Find coordinates of vertices of the triangle.

- b. The intersection of the graphs of linear functions**
 $y = -\frac{1}{2}x + 6$, $y = x + 6$, $y = \frac{1}{4}x + 1,5$ **construct a triangle.**
Find coordinates of vertices of the triangle.

- 2. a. Prove that each of the lines** $y = 3x - 4$, $y = 6 - 2x$ **and**
 $y = 2x$ **cuts the other two lines.**

- b. Prove that each of the lines** $y = 4x - 1$, $y = 4 - x$ **and**
 $y = \frac{1}{2}x$ **cuts the other two lines.**

C