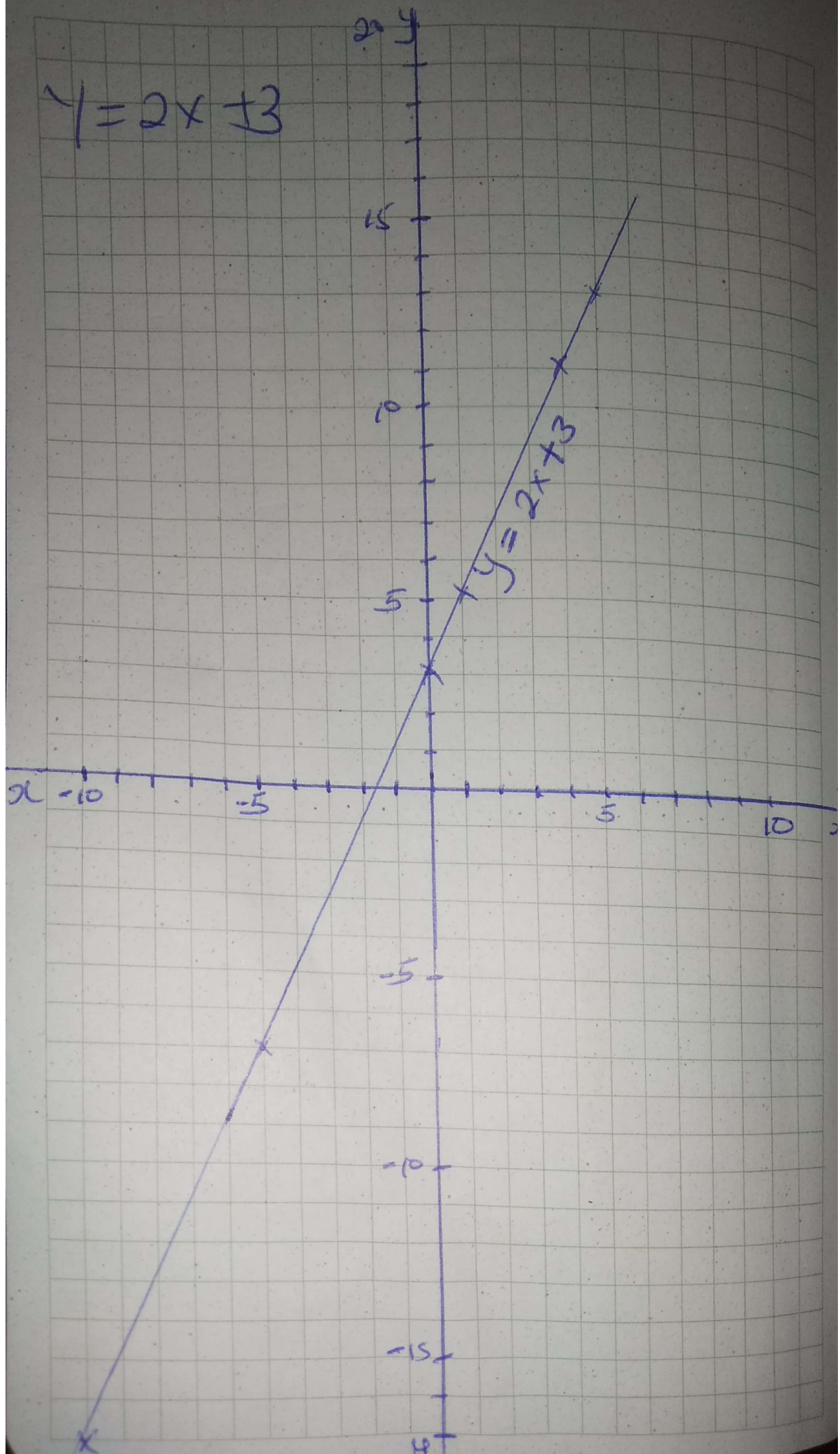
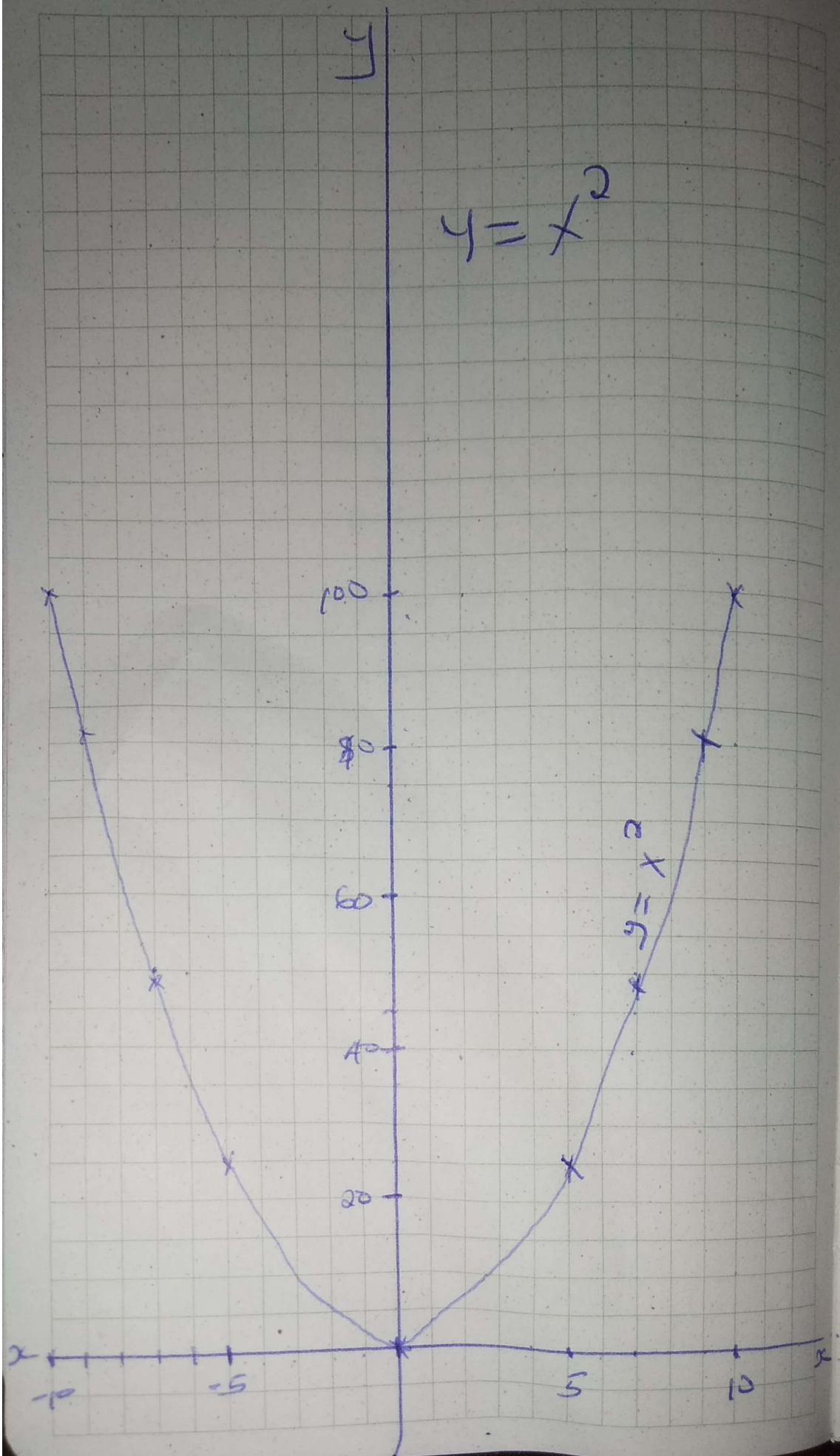


$$y = 2x + 3$$

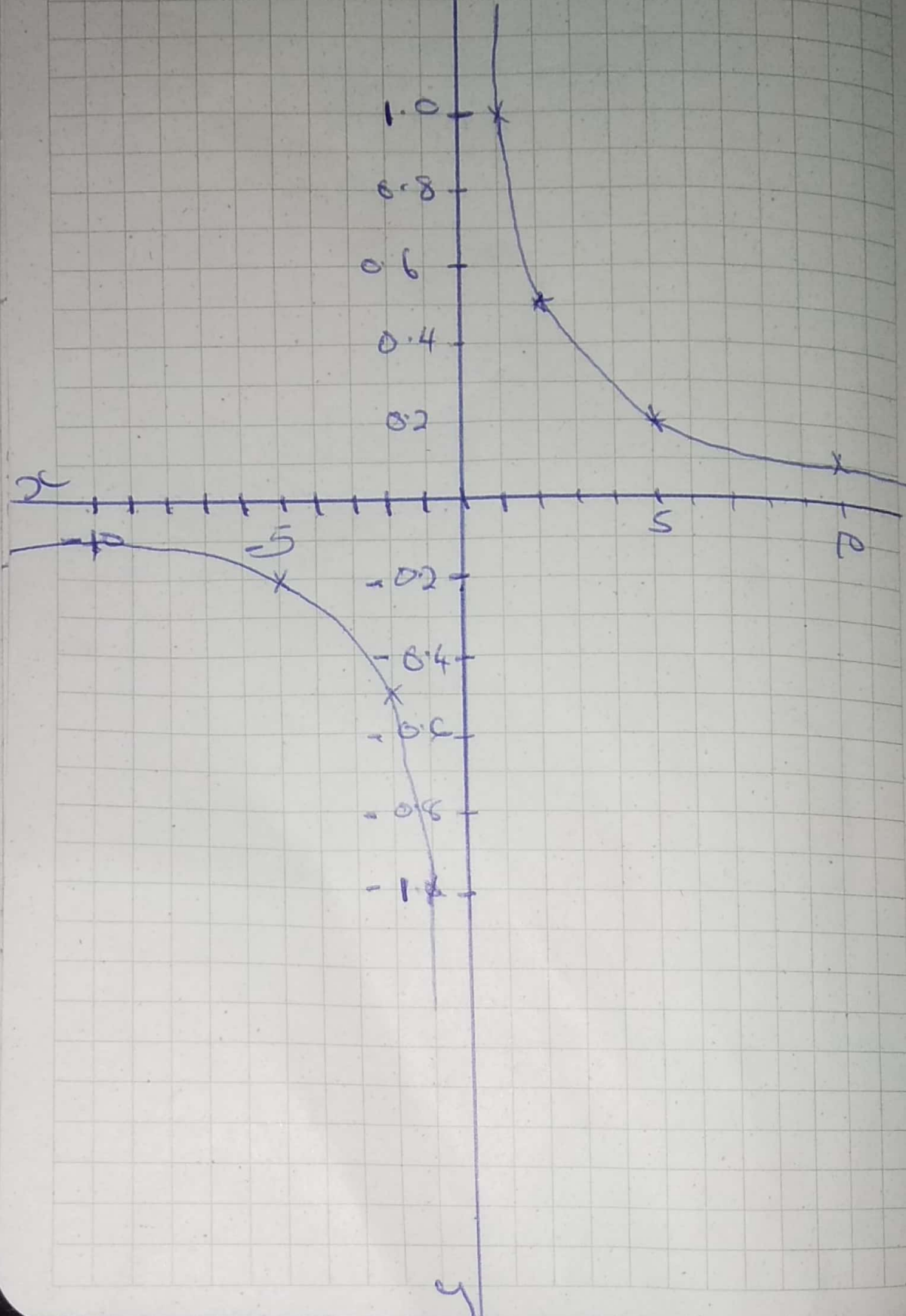


EXP 4: graph 2



EXP 4: graph 3

$$y = \frac{1}{x}$$



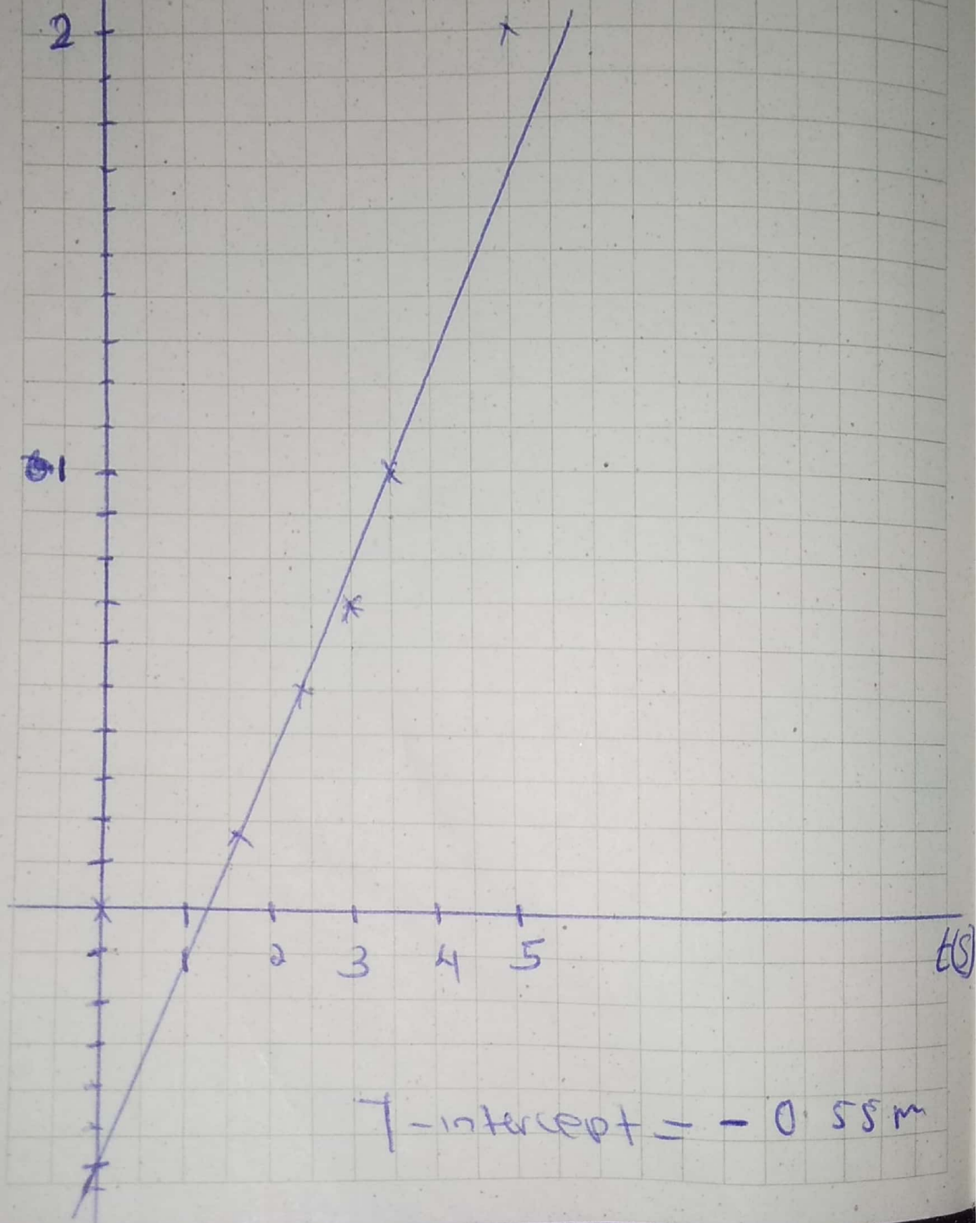
EXP 5

DATA SET 1

S(m)

$$g = \frac{\Delta S}{\Delta T} = \frac{0.17 - 0.5}{1.6 - 2.4} = \frac{-0.33}{-0.8}$$

$$\text{gradient} = 0.41$$



$$t\text{-intercept} = -0.55 \text{ s}$$

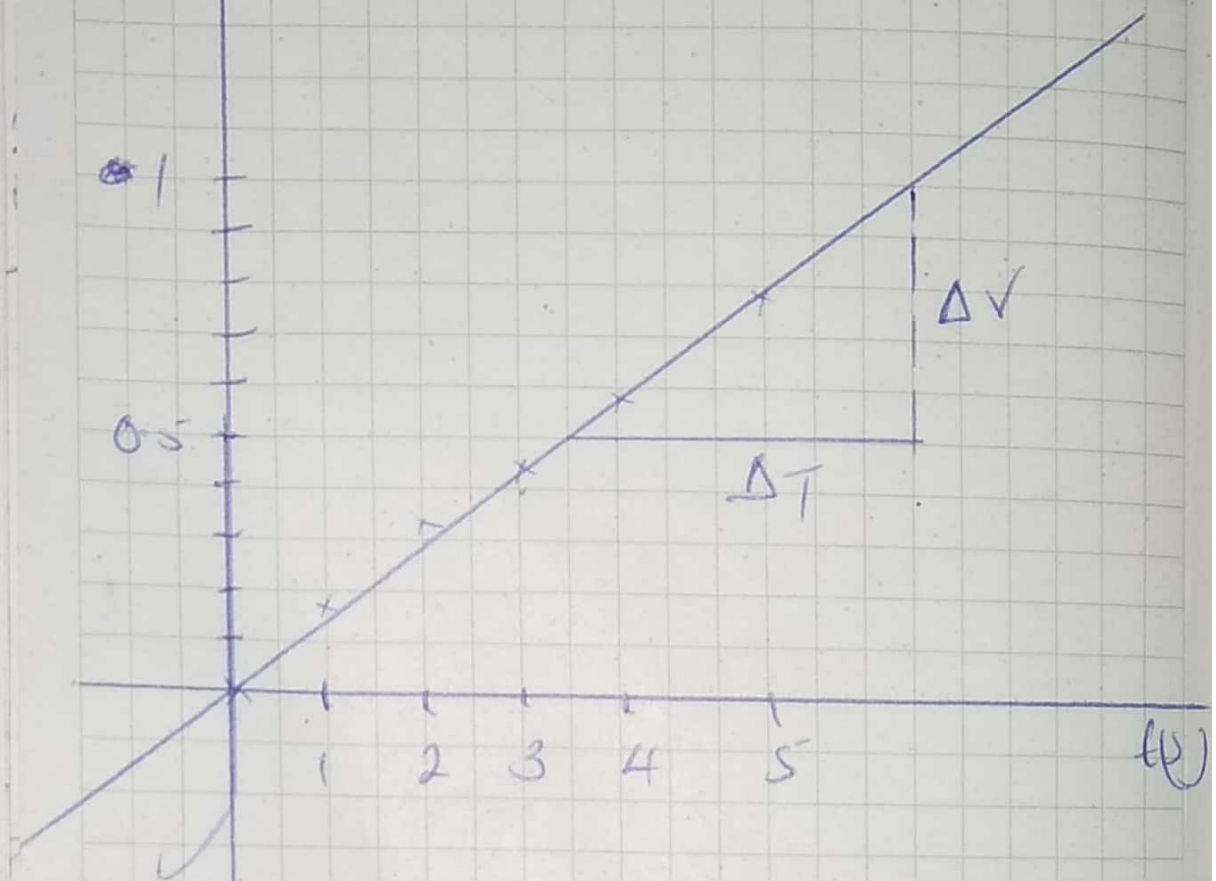
EXP 5

DATA SET 2

$v \text{ (m/s)}$

$$\text{gradient} = \frac{\Delta v}{\Delta t} = \frac{1 - 0.5}{6.5 - 3.5}$$

$$\text{gradient} = \underline{\underline{0.17}}$$



$$\text{Y intercept} = 0 \text{ m/s}$$

EXP 5

DATA SET 3

graph of s/t vs t .

PART I

Y-intercept = 5.0

$$\text{gradient} = \frac{5.55 - 5.35}{5.5 - 3.5}$$

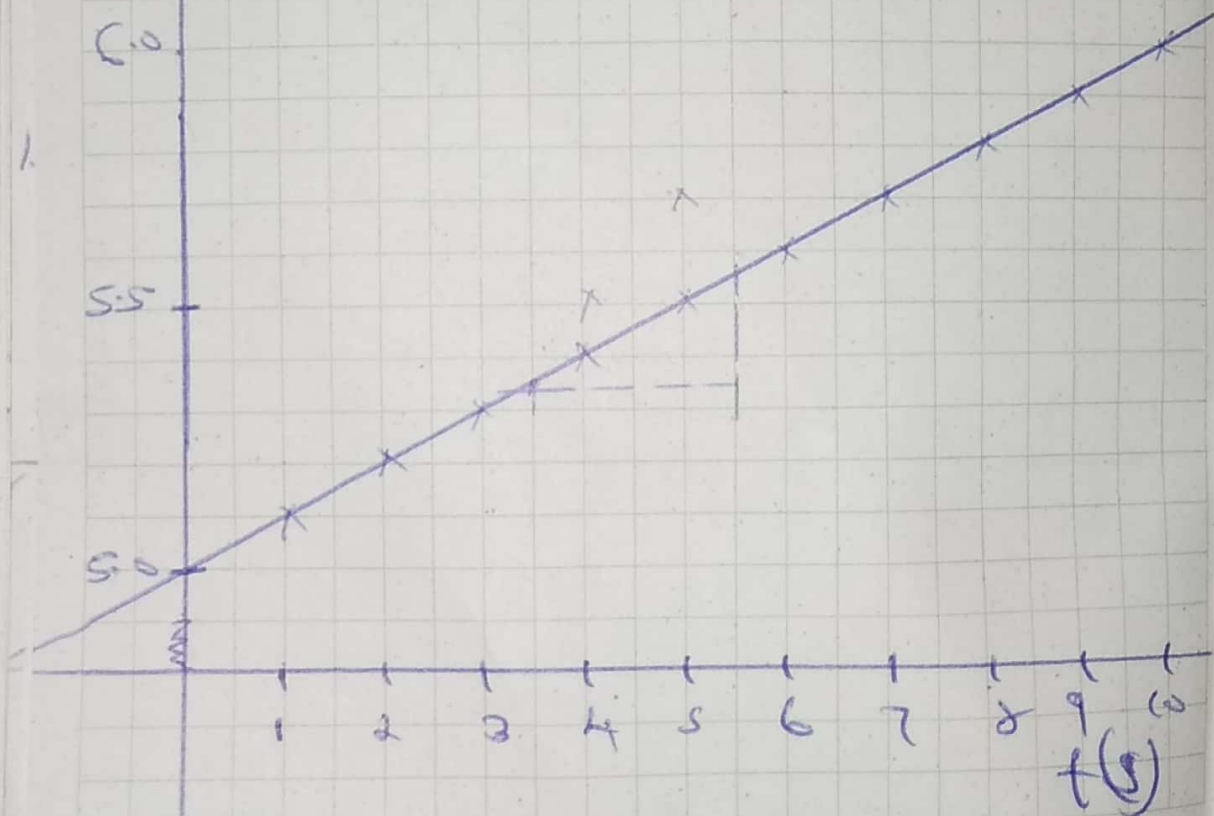
$$= 0.1$$

$$\text{gradient} = \frac{1}{2}a$$

$$a = 2 \times \text{gradient} = 0.2 \text{ m/s}^2$$

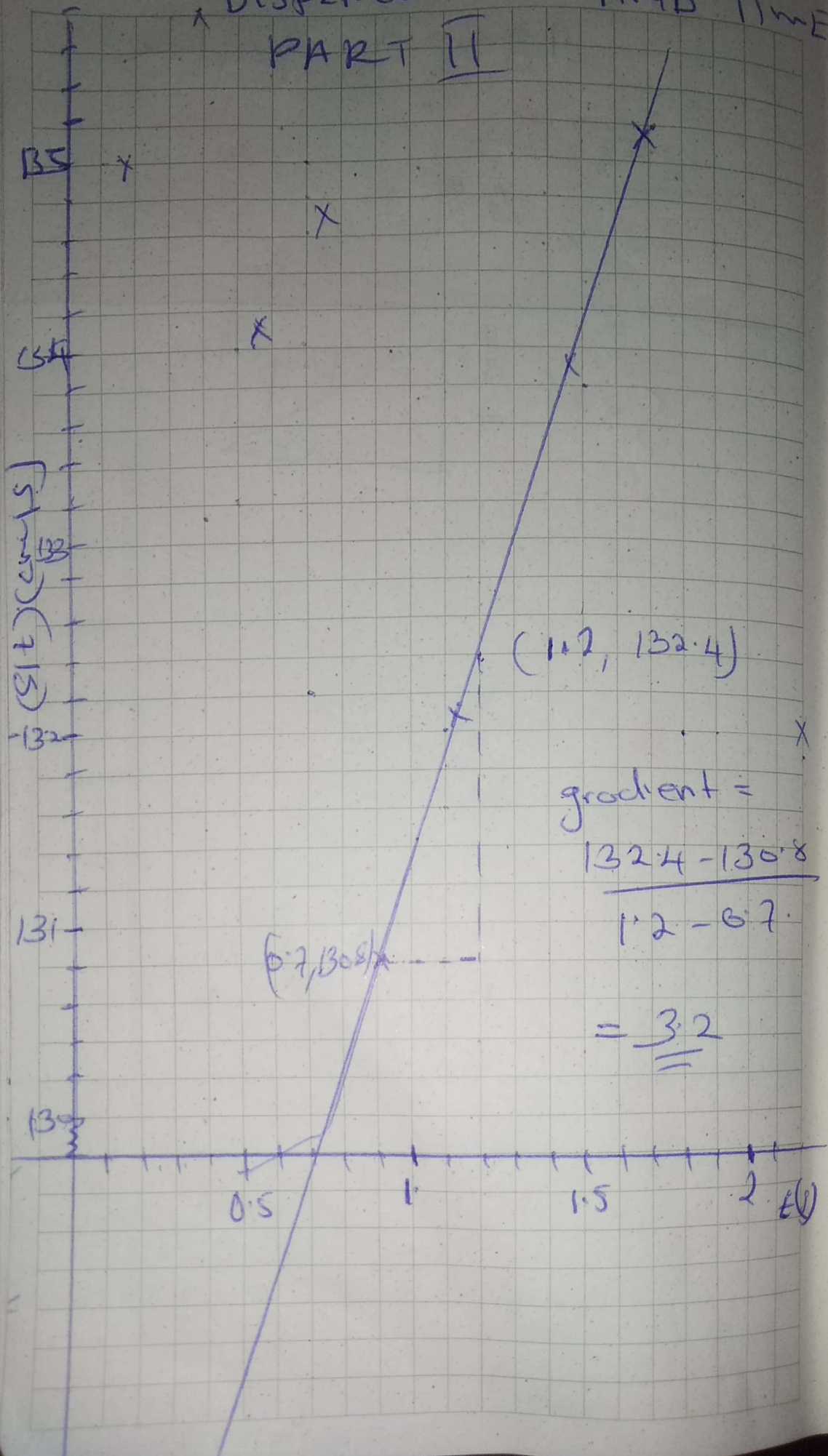
$$\text{initial velocity} = 5.0 \text{ m/s}$$

(5.1 m/s)
(5.2 m/s)
(5.3 m/s)
(5.4 m/s)
(5.5 m/s)
(5.6 m/s)
(5.7 m/s)
(5.8 m/s)
(5.9 m/s)
(6.0 m/s)



EXP 5

DISPLACEMENT AND TIME PART II

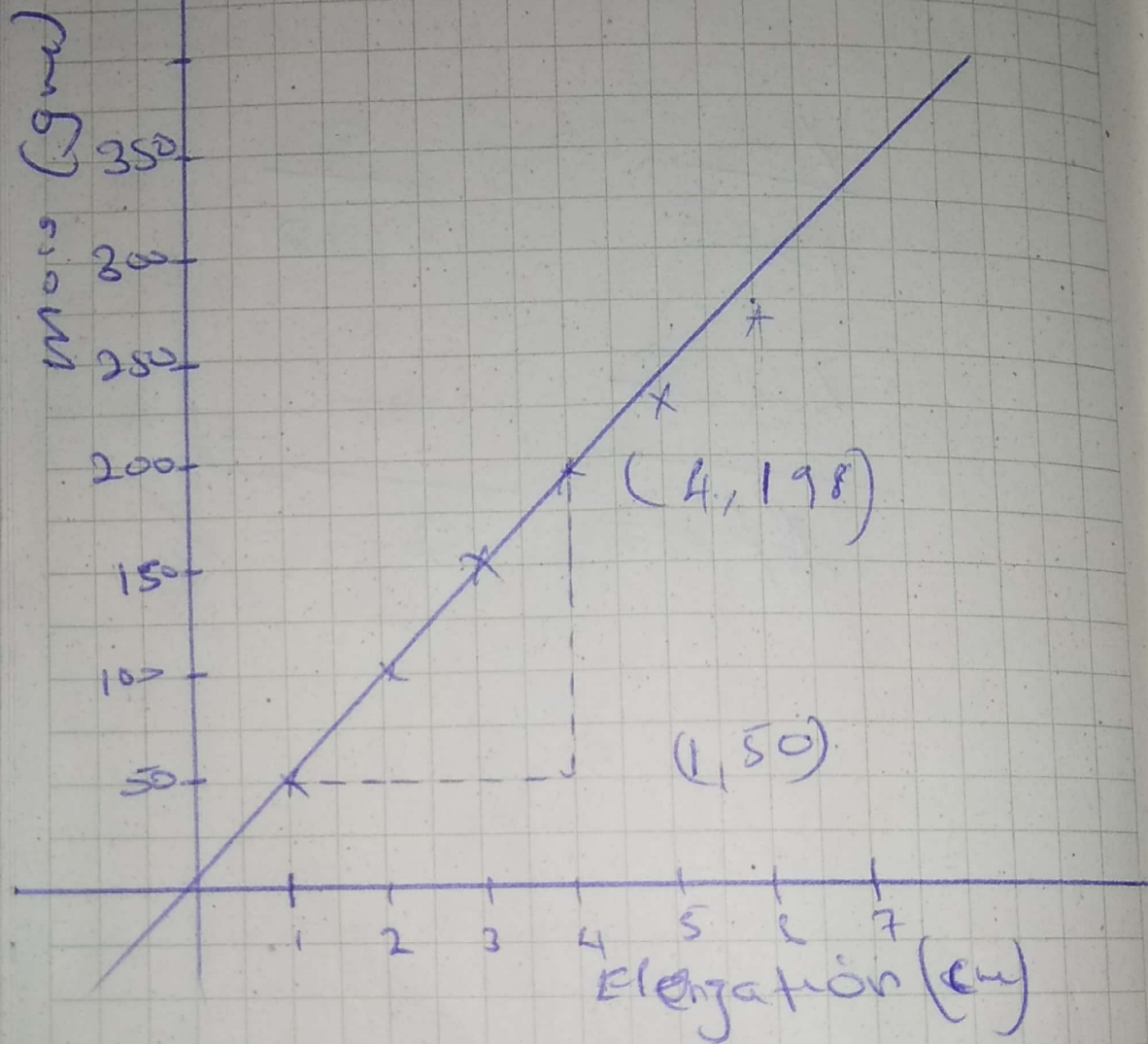


EXP 6 A

spring graph.

$$\text{gradient} = \frac{198 - 50}{4 - 1}$$

$$= \underline{\underline{49.33 \text{ gm/cm}}}$$



EXP 6

VIBRATION GRAPH.

TABLE 2

$$\text{gradient} = \frac{275 - 225}{13 - 9} = 12.5$$

