

Teste Chag

$$1. a. xy = k \quad b. \frac{10}{3\sqrt{2x+2}} \times \frac{5}{3} = k$$

$$\frac{10}{3\sqrt{2x+2}} \cdot \frac{5}{3} = k$$

$$\frac{50}{9\sqrt{2x+2}} = k$$

$$d. \frac{10}{3\sqrt{2x+2}} = \frac{10}{3 \cdot 3} = \boxed{\frac{10}{9}}$$

$$\frac{10}{9} \times \sqrt{2x+2} = \frac{10}{9} \cdot 5 = \frac{10}{3}$$

$$k = \frac{10}{3}$$

$$2. a. \frac{2x-8}{x-5} = \frac{(2x+4)-8}{x-5} = \frac{2(x-5)}{x-5} = 2$$

b. shift graph 5 units to the right
dilate by factor of 2
shift graph 8 units down

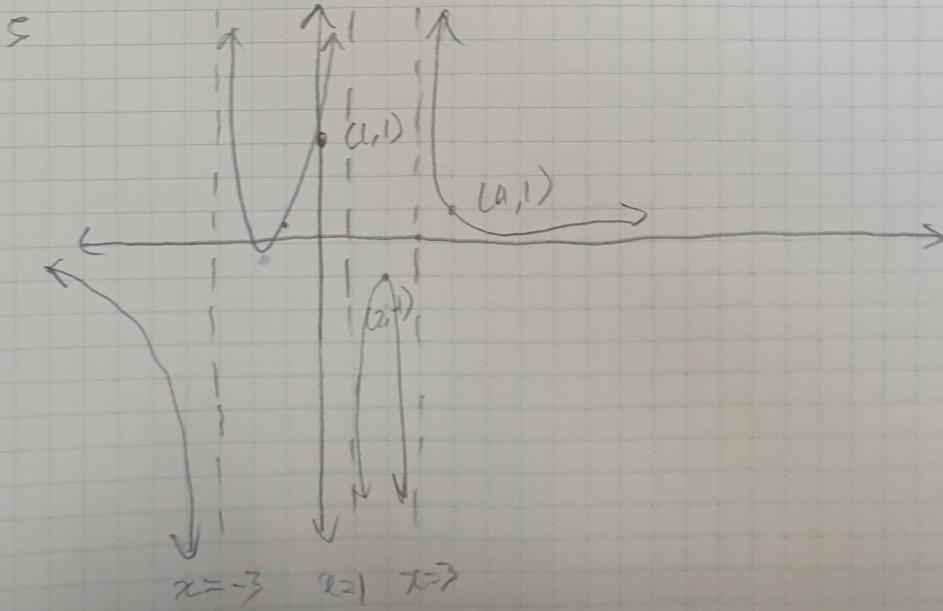
$$c. x=5, y=2$$

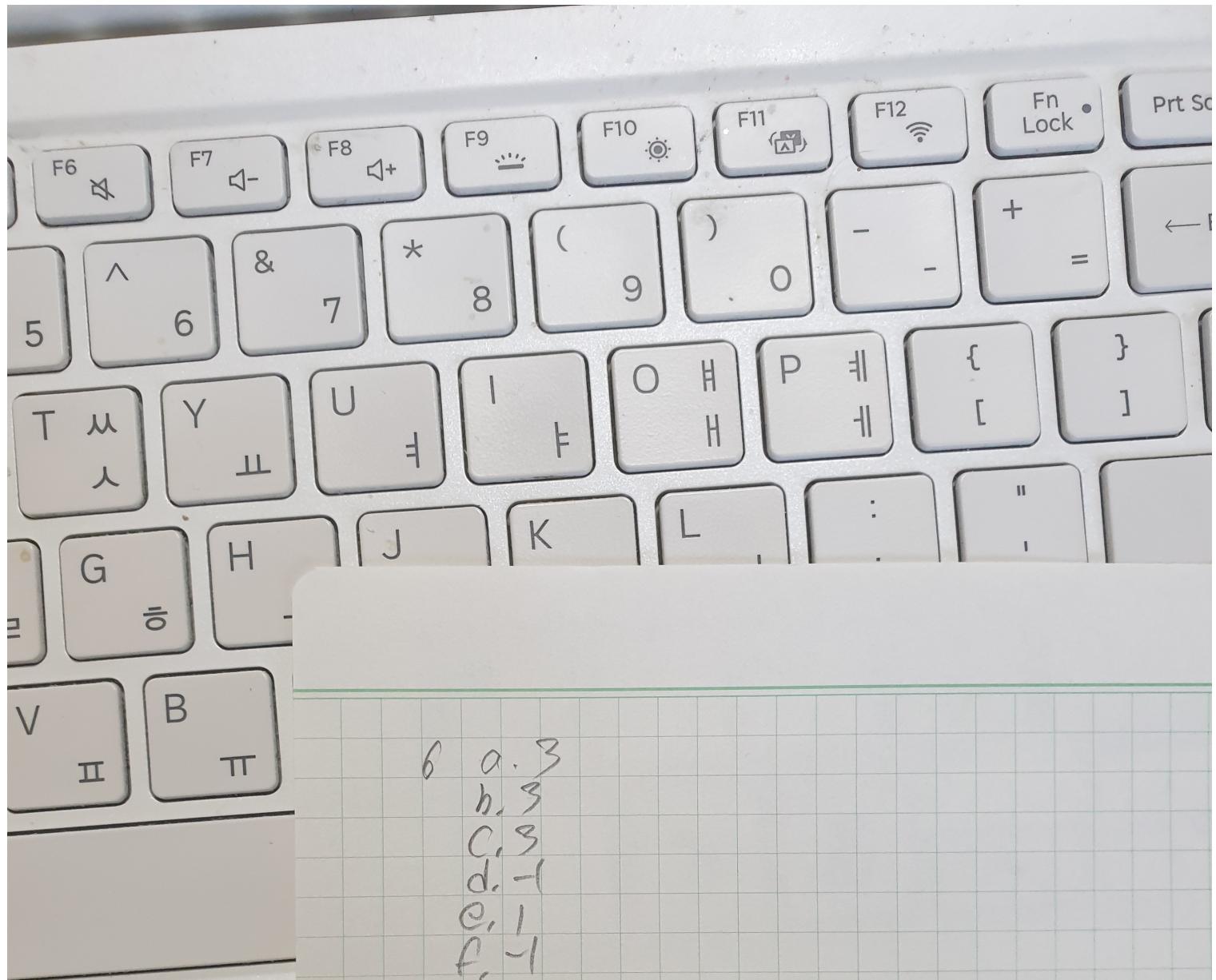
$$3. \frac{\frac{1}{8x} + \frac{1}{5}}{x} = \frac{\frac{x+10}{8x+5x}}{x} = \frac{x+10}{5x^2+25x} = \frac{(x+5)+5}{5x(x+5)} = \boxed{\frac{1}{5x} + \frac{1}{x^2+5x}}$$

$$4. multiply \quad xy \quad 2+4x^2y-7x = 2y$$

$$2-3x = (2-4x^2)y$$

$$\boxed{y = \frac{2-3x}{2-4x^2}}$$





b a. 3
b. 3
c. 3
d. -
e. 1/1
f. -1