

الف)  $y = x^2 - 5$        $x^2 = y + 5$        $x = \sqrt{y+5}$

(1) ✓

$R_f = [-5, +\infty)$

ب)  $y = x^3 + 1$        $x^3 = y - 1$        $x = \sqrt[3]{y-1}$

$R_f = \mathbb{R}$

الف)  $y = x^2 - 4x + 7$        $y = (x-2)^2 + 3$

(2)

$R_f = [3, +\infty)$        $(x-2)^2 = y-3 \rightarrow x-2 = \sqrt{y-3}$        $x = \sqrt{y-3} + 2$

ب)  $y = x^2 - 5x + 1$        $y = x^2 - 5x + 1 + 5, 25 - 5 \times 5 = (x-2, 5)^2 - 5, 25$

$R_f = [-5, 25, +\infty)$        $\sqrt{y+5, 25} = x-2, 5$   
 $\sqrt{y+5, 25} + 2, 5 = x$

✓

الف)  $y = \frac{x^2+3}{x^2-2}$

(3)

$y(x^2-2) = x^2+3$   
 $x^2(y-1) = 3+2y$

$x^2 = \frac{3+2y}{y-1} \rightarrow x = \sqrt{\frac{3+2y}{y-1}}$

$R_f = (-\infty, -\frac{3}{2}] \cup (1, +\infty)$

✓

ب)  $y = \frac{2|x|+1}{|x|-2} \rightarrow y|x|-2y = 2|x|+1$

$|x|(y-2) = 2y+1$        $|x| = \frac{2y+1}{y-2}$

$R_f = (-\infty, -\frac{1}{2}] \cup (2, +\infty)$

$\frac{1}{2}$        $2$   
+ | - | +

$y = \frac{1}{x^2-4x}$

$yx^2-4xy = 1$

$yx^2-4xy-1 = 0$

$\Delta = -(-4y) \pm \sqrt{(-4y)^2 - (4 \times y \times -1)}$        $\Delta \geq 0$        $14y^2+4y \geq 0$   
 $4y(4y+1) \geq 0$

✓

$-\frac{1}{4}$        $0$   
+ | - | +

$R_f = (-\infty, -\frac{1}{4}] \cup [0, +\infty)$

④

⑧ 11-11

$$x = \frac{-b}{2a}$$

$$y = -x + 1 + x = 1$$

MAX

$$x = \frac{-b}{1a} =$$

$$y = a$$

11 V a) (4)

$$= [0.9 + 0.0]$$

$$r_1 = \frac{-R}{-r} = 1$$

$$y = 1x$$

$$R_f = \sqrt{(-0.02 \text{ K})} \rightarrow R_f = [0.01 \text{ K}]$$

$$R_f = 1/R$$

⑤

⑤

$$Rf = [0, +\infty)$$

$$R_f - IR$$

597  
(C)

1, 2, 3

①

$$Rf = [$$

$$g + ad) =$$

$$\frac{n+1}{n-1}$$

$$\frac{1}{P_{100}} = 1$$

$$\frac{a}{c} = \mu$$

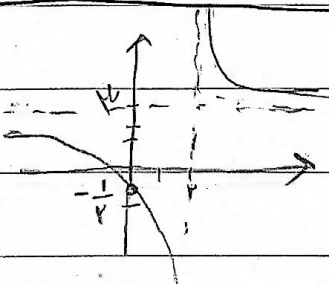
$$\frac{1-x}{1-x^2} = \frac{1}{1+x}$$

$$1 - \gamma \neq 0$$

$$\frac{1}{5}$$

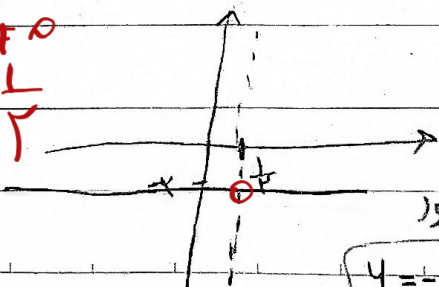
$$\therefore \frac{K}{-Y} = -Y$$

$$\underline{y = -x}$$



$$H = c$$

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



برای الله حالت قافله

20/11/2020

سازمان تامین اجتماعی

معدلات تبدیل (م) (معدلات)

$y = -r$  **Megara** NOTE

## Neja NOTE

الف)  $y = \cos^2 x + \frac{1}{\cos^2 x}$   $R_f = [2, +\infty)$  11 ω - 10

ب)  $y = \sqrt[n]{\frac{x^2+1}{x}} = \sqrt[n]{x + \frac{1}{x}}$   $R_f = (-\infty, -1] \cup [1, +\infty)$

$x > 0 \rightarrow (\sqrt[n]{x}, +\infty)$

$x < 0 \rightarrow (-\infty, \sqrt[n]{-x})$