1-

$$\frac{5^{23}}{5^{23}}$$

$$(2) \left(\frac{3}{2}\right)^{-2}$$

$$= \sqrt{52}$$

$$= \sqrt{52}$$

$$= \sqrt{52}$$

$$= \sqrt{52}$$

$$= \sqrt{5} \times \sqrt{5} = \sqrt{2^{2} \cdot 2}$$

$$= \sqrt{5} \times \sqrt{2} = \sqrt{3} \times \sqrt{2}$$

c)
$$\left(\frac{3x}{3x}, \frac{4}{4}, \frac{3}{4}\right)^{-2}$$

w) (x+3) (ux-5)

() (Ja+Jb) (Ja-Jb)

$$= (\sqrt{a})^{2} - (\sqrt{b})^{2}$$

$$= (\sqrt{a} - \sqrt{b})(\sqrt{a} + \sqrt{b})$$

$$= (a - b)$$

$$d) (2x+3)^{2}$$

$$= (2x+3)(2x+3)$$

$$= (x+2)(x+2)(x+2)$$

$$= (x^{2}+0x+0)(x+2)$$

$$= (x^{2}+0x+0)(x+2)$$

$$= (x^{2}+0x+0)(x+2)$$

$$= x^{3}+0x^{2}+0x+2x^{2}+8x+8$$

$$= x^{3}+6x^{2}+32x+8$$

a)
$$0 \times x^{2} - 25$$

$$= (2x)^{2} - 5^{2}$$

$$= (1x - 5) (2x + 5)$$

b) 2x2 + 5x - 12

$$\frac{-5 \div 33}{2 \cdot 2} = \frac{6}{4} - \frac{3}{2}$$

()
$$x^3 - 3x^2 - 4x + 12$$

$$= (\chi^{3} - 3\chi^{2}) - (4\chi - 3\chi)$$

$$E) 3x^{3/2} - 9x^{3/2} + 6x^{-3/2}$$

$$= x^{3/2} - 3x^{3/2} + 2x^{-3/2}$$

$$= xy(x^2 - y)$$

= -(y+x)

$$= \frac{\sqrt{4h-2} \cdot \sqrt{4h+2}}{h} = \frac{(\sqrt{4h-2})^2 - 2^2}{h(\sqrt{4h+2})} = \frac{4h-4}{h\sqrt{4h+4}}$$

$$= \frac{1}{h\sqrt{4h+4}} + \frac{1}{h}$$

7-

$$x+bx+c$$
 $\rightarrow x^2+(a+b)x+ab \rightarrow (x+a)(x+b)$

$$= (x+\frac{1}{2})^{2} + (\frac{1}{2})^{2}$$

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

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

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

4

$$(x-6)^{2} + (6)^{2}$$

$$= x^{2} + x \cdot (-6) + 9$$

$$= x^{2} + x \cdot (-6) +$$

=>
$$2(x^{2}-6x+9)-9$$
 => $2(x-3)^{2}-9+23$ = $2(x-3)^{2}-7$

$$\alpha) x + 5 = 24 - \frac{3}{2}x$$

$$= \frac{2}{2} \frac{3}{2} \times + \times + 5 = 34.2$$

$$=> x = \frac{1}{3} = 6$$

$$\begin{cases} x+7 & \frac{x}{2} \\ \hline 7x-7 \end{cases}$$

$$=$$
 $\times \left(\begin{array}{c} 2x \\ \times \end{array}\right) = 2x - 2 \cdot A$

$$= \frac{x+7}{x+7} = 5x-7$$

$$C) \quad x_{2} - x - 7 \mathcal{I} = 0$$

$$\frac{-(-1) \pm \sqrt{49}}{2 + 3} = \frac{x^2 = -6}{2} = -3$$

$$\frac{-4}{4} + \frac{2\sqrt{2}}{4}$$
 $x_1 = -3 - \frac{1}{2}\sqrt{2}$

$$(x^3-3x^2+2=0)$$

$$= x^{4}-3x^{2}+2=0$$

$$x = \frac{22}{3}$$

$$5 = \left[\begin{array}{c} 2^2 \\ \overline{3} \end{array}, \begin{array}{c} 2 \\ \overline{3} \end{array} \right]$$

$$\frac{Q}{2x(y-x)^{\frac{-3}{2}}} = \frac{2x}{(y-x)^{\frac{1}{2}}} = 0$$

$$= \frac{(u-x)^{\frac{1}{2}}}{2x} - 3(u-x)^{\frac{1}{2}} = 0$$

CASO J:

CASO 2;

5-3x>-4

-3x > -9

 $\frac{-3 \times > -9}{-3}$

x > 3

Sr) x2 (2x+8

CASO X >C

4+-2=2

(-2,4)



C) x(x-1)(x+2)>0

x40, x + 1 E x + - 2

1

X>0

x-4 43

X<F

XLO

- * < 3-4

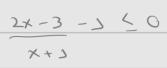
- * < - 3 . (-1)

x > 1

(1,4)

1<x<7

E) x+3 F 7



2x-3-X+2 < 0

X+7

x-4 < 0

X + _3

Ŷ

x-4 60

X+J

(-), 4]

メミム

x-440

X+3 50

x < - \(\)

VERDADGIRC POLAS

PROPRIGNADOS DA

RADICIAÇÃO

$$\frac{1}{21x} = \frac{3}{2-b}$$