$$(2x-1)^{2} = 4.5x$$

$$4x^{2} - 4x + 1 = 4.5x$$

$$4x^{2} - 8.5x + 1 = 0$$

$$8x^{2} - 17x + 2 = 0$$

$$(8x - 1)(x - 2) = 0$$

$$(x - 1)(x - 2) = 0$$

5) D:
$$x > \frac{2}{3}$$
 or $\frac{2}{3} > \frac{1}{3}$ (such that the second of the

c)
$$\frac{1}{2}$$
 $\frac{1}{2}$ \frac

d) D:
$$\frac{x>0}{3x^2+x=30}$$
 (3x +10)(3x-3)=0 $x=30+-86$

e)
$$D | 14x^2 \times 0 - 0 | x \in \mathbb{R}$$

 $cos_u^2 (1+x^2) = \frac{1}{4} - cos_u^2 (1+x^2) = \frac{1}{4} \frac{1}{4} = \frac{1}{4} = 2 \text{ or } \frac{1}{4}$
 $x^2 = 1 \text{ or } -\frac{1}{4} = \frac{1}{4} = \frac{1}{4}$

Romanur: cosx = cos, x [cos(1) + 2 cos(x)] cos(x) = 1 2 cos(x) + - cos(m-120

$$2 \cos^{2}(x) - \cos(x) - 1 = 0$$

$$(2 - \cos(x) + 1) (\cos(x) - 1) = 0$$

$$\cos(x) = |or - \frac{1}{2}$$

$$X = |or - \frac{1}{2}$$

$$6 = 5 = 20$$

$$5' = 5 = 20$$

$$5' = 5 \cdot 5' - 20$$

$$0 = 4 \cdot 5' - 20$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$5'' = 5 = 5 = 1$$

$$= -5 \cdot \sqrt{3}$$

$$\frac{\cos \left[\frac{x^{2}+4x+1}{6x+2}\right] = -1}{\frac{x^{2}+4x+1}{6x+2}} = \frac{1}{2}$$

$$\frac{2x^{2}+8x+2=6x+2}{2x^{2}+2x=0}$$

$$\frac{1}{2}$$

$$x = \frac{x+1}{x-1} = \frac{x+1}{x-1} = 2$$
 $x = 2x = 2$ $x = 3$

24) a) D:
$$x \in \mathbb{R}$$

 $4^{x+1/4} + 2^{x+2} = 4$

$$2^{2*+3} + 2^{***} = 4$$

$$8 \cdot 2^{2*} + 4 \cdot 2^{*} = 4$$

$$(2 \cdot 2^{-1})(2^{+1}) = 0$$

$$3^{\times}\left(\frac{1}{3}\right)^{\times -3} = \left(\frac{1}{27}\right)^{\times}$$

$$3^{\frac{1}{2}} \cdot 3^{\frac{(3-\mu)}{2}} = 3^{-3} \times$$

$$\frac{x < x}{\sqrt{2}} < \frac{x < x}{\sqrt{2}} < \frac{x > 3}{\sqrt{2}}$$

$$eo_{3}\left[\frac{(x-2)\cdot x}{8}\right]=0$$

$$(x-2) \cdot x = 1$$
 $x^2 - 2x = 8$ $x^2 - 2x - 8 = 0$ $(x-4)(x+2) = 0$

$$\frac{\chi}{11} = \frac{19}{30 - x}$$

$$(x - 11)(x - 19) = 0$$

$$X = \frac{3^4 \cdot 6^2}{27^{43}} = \frac{81.36}{9} = 1.862 \overline{324}$$

$$\chi = \frac{6^2 \cdot (2\sqrt{20})^2}{100^{1/2}} = \frac{36 \cdot 20}{10} = \frac{72}{1}$$

$$(3+-2)$$
 $\cos^{2} \theta = 3^{\cos(2)} \frac{(3-k)(4-k)}{(3-k)(4-k)} = 3$

$$\frac{2}{(3-k)(4-k)}=3$$