a)
$$x-6=7$$
 =7 X = 6+7 =7 X = 13

b)
$$5x + 11 = 0 \implies -1/5 = 1$$

c)
$$2x + 6 = 3x + 5$$

d)
$$-1 + 5x = -20$$
.

©
$$2x + 6 = 3x + 5$$
 d) $-1 + 5x = -20$
 $6 - 5 = 3x - 2x$ $5x = -19$
 $1 = 1x$ $x = -19$
 $1 = x$

2. Encuentre las raíces de las siguientes ecuaciones cuadráticas.

a)
$$(x-2)^2 = 0$$

b)
$$x^2 - 4x - 4 = 0$$
.

c)
$$2x^2 + 4x + 6 = 0$$
.

d)
$$x^2 - x - 1 = x + 1$$

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

$$A = b^{2} - 4ec$$
 $X_{0} = -b = 7\frac{4}{4}$
 $A = (-4)^{2} - 16$ $Z_{0} = 7\frac{4}{4}$
 $A = 76 - 16$
 $A = 0$ 1 raiz $X_{0} = 2$

$$b) x^2 - 4x - 4 = 0.$$

c)
$$2x^2 + 4x + 6 = 0$$
.
 $2(x^2 + 2x + 3) = 0$
 $x^2 + 2x + 3 = 0$

$$A = b^{2} - 4eC$$
 $A = 4 - 4.1.3$
 $A = 4 - 12$

$$\frac{x_{1}, x_{2} - b \pm \sqrt{\Delta}}{z \cdot 2} \qquad \frac{-2}{z} + \frac{2\sqrt{2}i}{z} = -1 + \sqrt{2}i$$

$$\frac{-2 \pm \sqrt{8}i}{z} \qquad \frac{-1 - \sqrt{2}i}{z}$$

d)
$$x^2 - x - 1 = x + 1$$

$$x^2 - x - 1 - 7 - x = 0$$

$$x^2 - 2x - 2 = 0$$

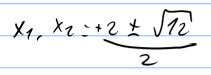
$$3:7, b:-2, c:-2$$

$$1:5^2-4ec$$

$$4-4.1.-2$$

$$4+8$$

$$1=12$$



3. Resuelva las siguientes ecuaciones:

a)
$$(x-2)^2(x+\sqrt{3})=0$$
 c) $x^4-36x^2=0$
b) $(x+1)^2=4(x+1)-4$ d) $\sqrt{4-x^2}=-x$

c)
$$x^4 - 36x^2 = 0$$

$$\frac{-r^2}{-r^2} = -r$$

e)
$$\left(x + \frac{1}{x}\right)^2 - \frac{1}{x} = x + 12$$

$$\frac{\partial}{\partial x^{2}} (x + \sqrt{3}) = 0$$

$$(x^{2} - 4x + 4) (x + \sqrt{3}) = 0$$

$$(x - 2) \cdot (x + \sqrt{3})$$

$$x^{2} + \sqrt{3} x - 2x - 7.\sqrt{3}$$

 $x^{2} + \sqrt{3} - 2x - 2.\sqrt{3}$