MATH LEAGUE 12TH WEEK SOLUTIONS:

1- SOLVING THE EQUATION;

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

$$\frac{\sqrt{3+x}+\sqrt{3+x}}{0}=2$$

THE SOLUTION IS **UNDIFEID**

-2 $x^2+xy=28....(1)$

$$y^2+xy=21....(2)$$

$$x^2+y^2+2xy=49$$

$$(x+y)^2=49$$

$$x+y=7$$

$$x^2-y^2=7$$

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

$$7(x-y)=7$$

$$x-y=1$$

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

$$x^2+y^2-2xy=1$$

FINDING THE VALUE OF XY:

$$x^2+y^2+2xy+x^2+y^2-2xy=50$$

$$2(x^2+y^2)=50$$

$$x^2+y^2=25$$

$$x^2+y^2+2xy=25+2xy$$

$$2xy=24$$

$$xy=12$$