

## **Zero Product Property**

ZERO PRODUCT PROPERTY STATES THAT FOR ALL REAL NUMBERS A AND B, IF AB=0 THEN EITHER A=0 OR B=0 OR BOTH A=0 AND B=0.

EXAMPLE

 $XY=0 \rightarrow X=0 OR Y=0$ 

## **Identifying Zeros of Binomials**

**Binomial** is an algebraic expression which contains just two terms e.g. (x-2)(x+3)

Examples

Identify zeros of (a-4)(a+6)

Putting (a-4)(a+6) equal to zero to identify its zeros i.e. (a-4)(a+6) = 0

According to Zero Product Property:

```
If (a-4)(a+6) = 0 \rightarrow a-4=0 \rightarrow a=4 OR a+6=0 \rightarrow a=-6
```

## Meets: Common Core Standard High School – HSA-APR.B.3

Math Posters From © www.MathWorksheetsLand.com