

**4.2: Factoring Quadratic Equations**

**Objectives:**

* Factor different types of quadratic expressions
* Solving quadratic equations by factoring

Recall that a quadratic equation is an equation that can be written in the form: **** where a, b and c are constants and a ≠ 0

As with last class, we can “solve” a quadratic equation by setting the equation equal to zero and finding the **roots** or **zeros** of the equation. We can do this by factoring.

* How many possible solutions might we have?

Solve the following quadratic equations by factoring. Check your solution(s).



1) (x – 5)(x + 2) = 0 2) 9x2 = 16



3) 4y2 = 4 4) – 4m2 + 24m = 0



5) x2 – 9x +20 = 0 6) ****



Ex. 1 : Solve by factoring . Check your solution(s).



Ex. 2: Write a quadratic equation whose roots are  and  in standard form 

