2-3 Factoring Review

Objectives: 1. Factor out the greatest common factor.

- 2. Factoring quadratic expressions in standard form
- **3.** Finding the zeroes of a polynomial







To factor an expression of the form $ax^2 + bx + c$, where a = 1

Ask yourself 2 questions:

1. What two numbers multiply to make c?

<u>AND</u>

2. What two numbers add to make b?

 $\begin{array}{c} q = 1 \\ b = 1 \\ C = 1 \\ T \\ \end{array}$











Factor each expression. 3x²- 4x 19x-70 $3x^2 + 11x - 20$ $4x^2 - 13x + 3$ -60 a : 4 × (3×-4) + 5/3--1) 15 30 -12 b = -3 $4y^{2} - |z|$ 4 22/ -1X 4x(x-3) - 1(x - 3)(4x-1)(x-3)



Solve each equation by factoring. $x^2 - 4x - 21 = 0$ $x^2 + 3x - 4 = 0$ x214x-X--7 3)+3(x-7)=0X (X-7) (x+3)(x-7)=0(x+4)X -| = ()





b. x= -7,3



