

1. Consider the following polynomial equation.

$$(x^2 - 4x + 3)(x^2 + 4x - 5) = 0$$

- a. What is the degree of this polynomial? How do you know?
- b. How many solutions to this equation should there be?
- c. Let's solve this equation.

$$(x^2 - 4x + 3)(x^2 + 4x - 5) = 0$$

2. Find the x-intercepts in simplest radical form.

$$(x^2 - 6x + 9)(2x^2 - 4x - 7) = 0$$

Quadratic Formula (On reference sheet) x

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

3. Find all real solutions to  $x^3 - 8x^2 - 2x + 16 = 0$ .

## Practice:

- 4. Find the roots to the nearest tenth.  $x^2 + 4x + 2 = 0$ in simplest radical
- 5. Find all real solutions to the equation

form.  
$$x^2 - 6x + 3 = 0$$

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## 1. Find all zeroes: $(x^2 - 6x - 7)(x^2 - 6x + 4) = 0$

Quadratic Formula:		
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{ac}$		
2a		

2. Find all real solutions to the equation to the nearest hundredth and in simplest radical form.

 $x^2 - 7x = 7x + 8$ 

Factor the following completely:

3.	$4x^2 - 9$	4. $x^3 + 3x^2 - 4x - 12$	5. $6x^2 + x - 12$