



Determine the vertex and the intercepts algebraically.

$$y = 4x^2 - 8x + 3$$

$$y = 4(x^2 - 2x + 1 - 1) + 3 - 4$$

$$y = 4(x-1)^2 - 1$$

$$\text{vertex } (1, -1)$$

$$y \text{ int} = (0, 3)$$

x int

$$4x^2 - 8x + 3 = 0$$

$$4x^2 - 6x - 2x + 3 = 0$$

$$2x(2x-3) - 1(2x-3) = 0$$

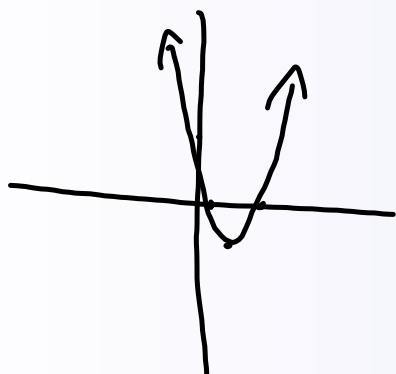
$$(2x-1)(2x-3) = 0$$

$$x = \frac{1}{2} \text{ or } \frac{3}{2}$$

$$p = 12$$

$$s = -8$$

$$-b \pm 2$$



**Pre-Calculus 110**  
**Exam Review**

**June 3, 2019: Day #1**

1. Hand back tests
2. Begin Exam Review

## **Suggestions for studying...**

- 1. Do review**
- 2. If you get stuck, look over class examples**
- 3. Look over old quizzes.**
- 4. Look over old tests.**
- 5. Ask questions (to each other and me)**
- 6. Extra help**

Trigonometry:

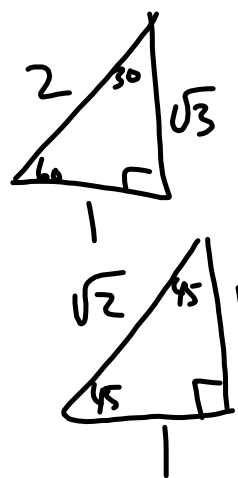
Angles in Standard Position

Reference Angle

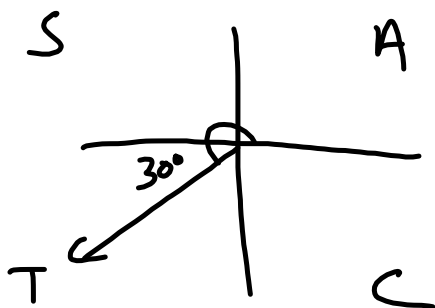
CAST Rule

Special Triangles

Solving Equations



$$\sin 210^\circ = -\sin 30^\circ = -\frac{1}{2}$$



$$\tan \theta = 1$$

$$\theta = 45^\circ \text{ or } 225^\circ$$

**Quadratics:**

$$Ax^2 + Bx + C = 0$$

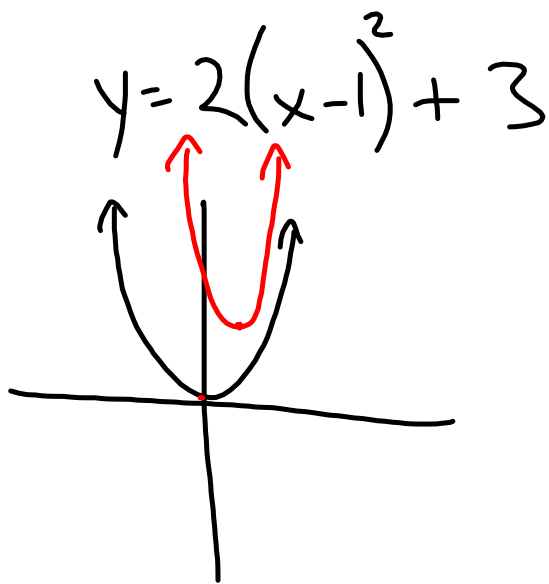
$$y = A(x-p)^2 + q$$

$$y = (x-a)(x-b)$$

**Standard Form, Vertex Form, Factored Form****Transformations****Completing the Square****Factoring****Quadratic Formula**

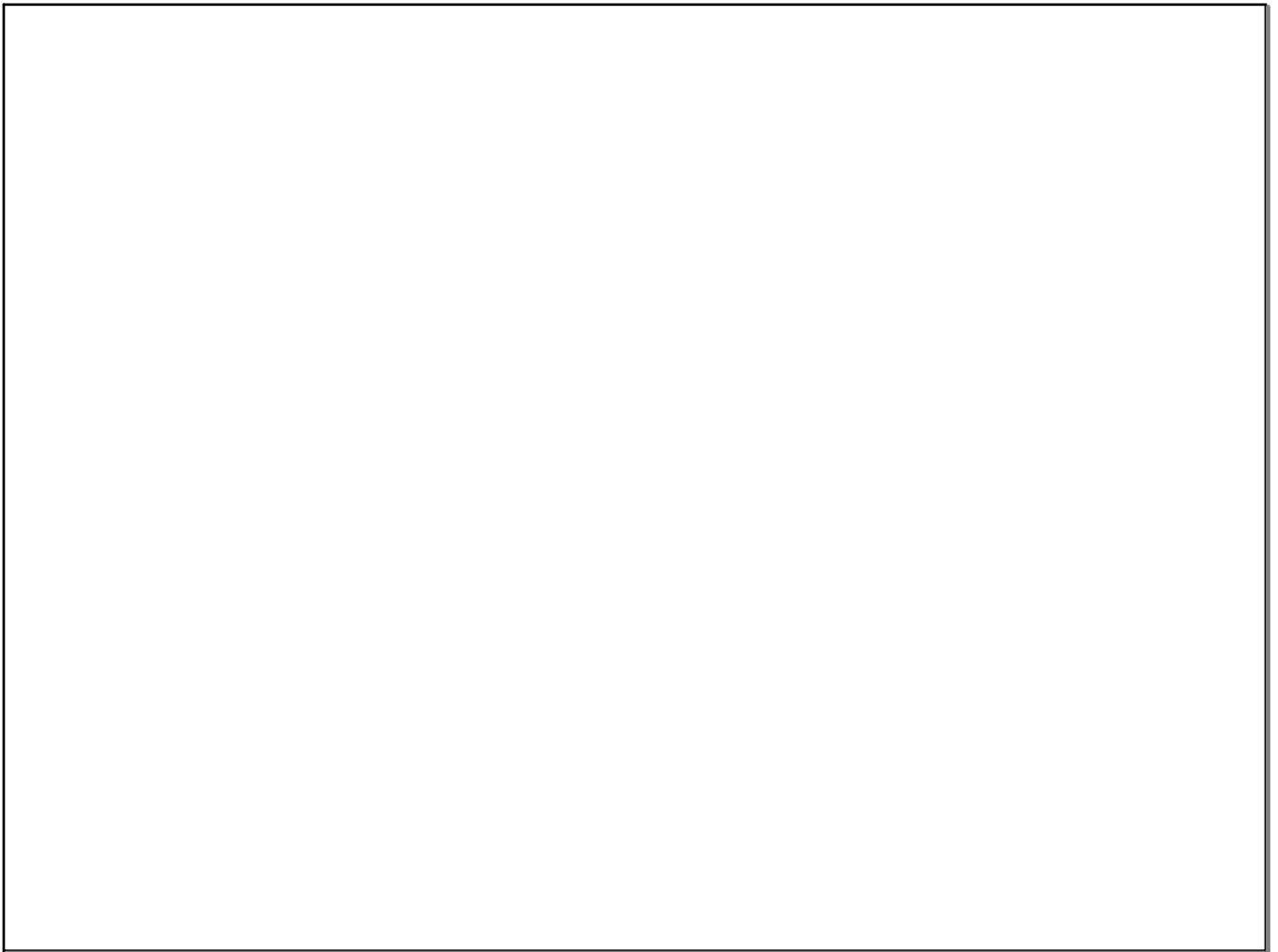
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

**\* Discriminant****Graphing Calculator**



**Look over some quadratic examples from review?**





## Attachments

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Standard Form Demor.GSP

Warm ups.notebook