

### COMPLETING THE SQUARE

#### **OBJECTIVE:**

 To understand how to use the Square root property and solving quadratic equations by completing the square.

#### **VOCABULARY:**

- Square root
- Complex Numbers
- Rationalizing.

# SQUARE ROOT PROPERTY

Watch this video on how to use the square root property. Square root property.

# PRACTICE

Solve each equation.

1. 
$$3x^2 = 75$$

$$2. \ \ 25x^2 + 16 = 0$$

3. 
$$(x+2)^2 = -9$$

4. 
$$2(x+2)^2 = 16$$

## COMPLETING THE SQUARE

Watch this video on how to solve quadratic equations by completing square. Completing square.

## PRACTICE

Solve each equation by completing the square.

1. 
$$x^2 - 8x + 1 = 0$$

$$2. \ x^2 + 2x + 2 = 0$$

3. 
$$3x^2 + 6x + 1 = 0$$