

EQUAZIONI DI SECONDO GRADO INCOMPLETE

$$ax^2 + bx + c = 0 \quad \text{COMPLETE}$$

$$a \neq 0$$

$$b = 0 \Rightarrow ax^2 + c = 0 \quad \text{PURA}$$

$$c = 0 \Rightarrow ax^2 + bx = 0 \quad \text{SPURIA}$$

$$b = c = 0 \Rightarrow ax^2 = 0 \quad \text{MONOMIA}$$

PURE

$$b = 0$$

$$ax^2 + c = 0$$

$$4x^2 - 1 = 0$$

$$\frac{4x^2}{4} = \frac{1}{4}$$

$$\sqrt{x^2} = \sqrt{\frac{1}{4}}$$

$$x = \pm \frac{1}{2}$$

$$4x^2 + 1 = 0$$

$$x^2 = -\frac{1}{4}$$

$$\Delta < 0$$

SPURIE

$$C=0$$

$$ax^2 + bx = 0$$

$$3x^2 + 5x = 0$$

$$\Delta = b^2$$

$$\underbrace{x \cdot (3x + 5)} = 0$$

$$x = 0$$

$$3x + 5 = 0 ; \quad x = -\frac{5}{3}$$

MONOMIE

$$b = c = 0$$

$$ax^2 = 0$$

$$\Delta = 0$$

$$3x^2 = 0 \Rightarrow x = 0$$