

Messa in evidenza del segno meno in un polinomio.

$$-x^4 + 12x^2 - 20 =$$

$$\textcircled{1^{\circ}} = -\left(x^4 - 12x^2 + 20\right) = -\left(x^2 - 2\right)\left(x^2 - 10\right)$$

$$S = -12 \quad p = 20 \Rightarrow -2; -10$$

TRINOMIO
1^A SPECIE

$\textcircled{2^{\circ}}$

$$S = 12 \quad p = +20$$

2 10

TRINOMIO
2^A SPECIE

$$-x^4 + 12x^2 - 20 = -x^4 + 2x^2 + 10x^2 - 20 = x^2 \left(-x^2 + 2\right) + 10 \left(x^2 - 2\right) =$$

OPPOSTI

$$\left(-x^2 + 2\right) = -\left(x^2 - 2\right)$$

$$\Downarrow$$

$$= -x^2 + 2$$

$$= -x^2 \left(x^2 - 2\right) + 10 \left(x^2 - 2\right) = \left(10 - x^2\right) \left(x^2 - 2\right)$$

$$-x^4 + 12x^2 - 20 = -\left(x^2 - 10\right) \left(x^2 - 2\right) = \left(10 - x^2\right) \left(x^2 - 2\right) =$$

$$= \left(x^2 - 10\right) \left(2 - x^2\right)$$