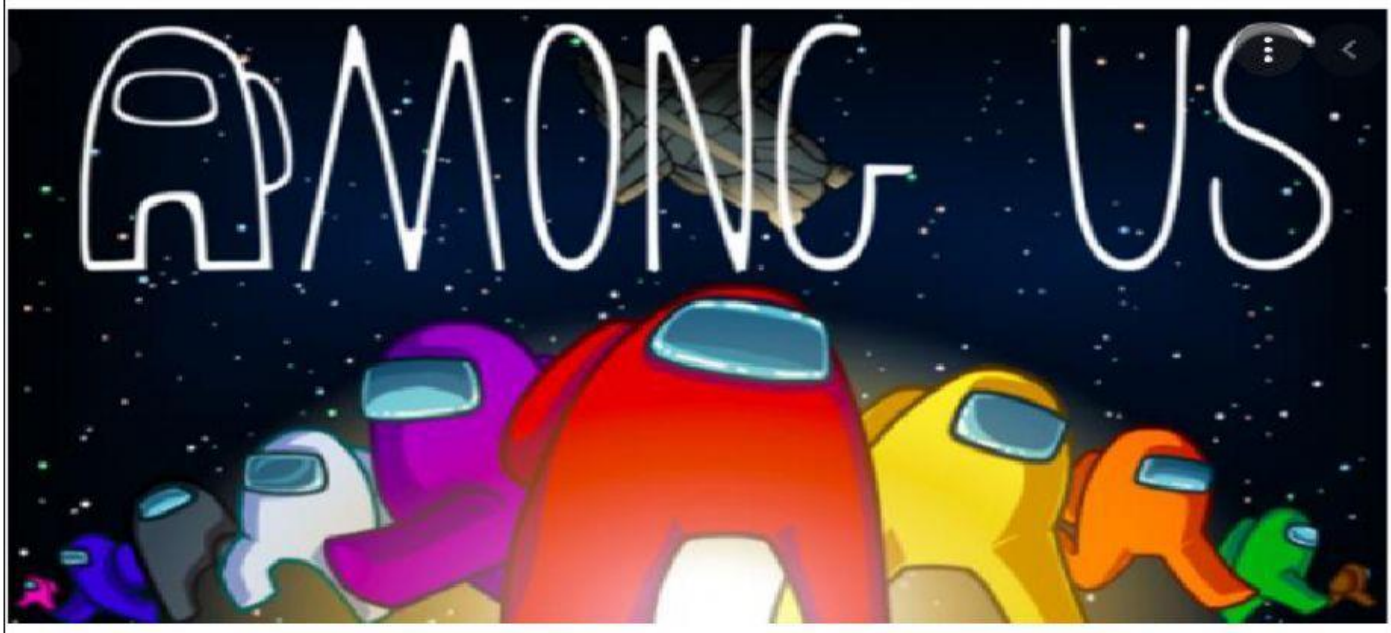
COLÉGIO **MARISTA**
SANTO ÂNGELO

ÁREA DA MATEMÁTICA
8º ANO – ENSINO FUNDAMENTAL
PROFESSORA LUCIANE ARANALDE DE CARVALHO

ESTUDANTE:

DATA: TURMA:

EQUAÇÕES DO 2º GRAU INCOMPLETAS:



Observe o vídeo completo, e resolva os exercícios propostos:

LIVEWORKSHEETS

EXEMPLO:

$x^2 + 10 = 410$

$x^2 = 410 - 10$

$x^2 = 400$

$x = \sqrt{400}$

$x_1 = 20$ $x_2 = -20$

$x^2 + 8 = 89$

$x^2 = 89 - 8$

$x^2 = 81$

$x = \sqrt{81}$

$x_1 = 9$ $x_2 = \square$

$x^2 + 20 = 120$

$x^2 = 120-20$

$x^2 = 100$

$x = \sqrt{\square}$

$x_1 = \square$ $x_2 = -10$

$x^2 + 15 = 240$

$x^2 = \square - 15$

$x^2 = 225$

$x = \sqrt{225}$

$x_1 = 15$ $x_2 = \square$

$x^2 + 18 = 67$

$x^2 = 67 \square 18$

$x^2 = \square$

$x = \sqrt{49}$

$x_1 = 7$ $x_2 = \square$

$x^2 + 60 = 85$

$x^2 = 85 \square 60$

$x^2 = 25$

$x = \sqrt{\square}$

$x_1 = \square$ $x_2 = -5$

LIVEWORKSHEETS

Crewmate

There is 1 Impostor among us

Exemplo:

$x^2 - 10 = 134$

$x^2 = 134+10$

$x^2 = 144$

$x = \sqrt{144}$

$x_1 = 12$ $x_2 = -12$

$x^2 - 50 = 175$

$x^2 = 175 +50$

$x^2 = \square$

$x = \sqrt{\square}$

$x_1 = 15$ $x_2 = -15$

$x^2 - 25 = 144$

$x^2 = 144 + 25$

$x^2 = 169$

$x = \sqrt{\square}$

$x_1 = 13$ $x_2 = -13$

$x^2 - 8 = 136$

$x^2 = \square + \square$

$x^2 = 144$

$x = \sqrt{144}$

$x_1 = \square$ $x_2 = -12$

$x^2 - 90 = 54$

$x^2 = 54 + \square$

$x^2 = 144$

$x = \sqrt{\square}$

$x_1 = 12$ $x_2 = -12$

$x^2 - 46 = 98$

$x^2 = 98 \square 46$

$x^2 = 144$

$x = \sqrt{144}$

$x_1 = 12$ $x_2 = \square$

LIVEWORKSHEETS

Exemplo:

$5x^2 - 26 = 54$

$5x^2 = 54 + 26$

$5x^2 = 80$

$x^2 = 80/5$

$x^2 = 16$

$x = \sqrt{16}$

$x_1 = 4$ $x_2 = -4$

$2x^2 - 61 = 139$

$2x^2 = 139+61$

$2x^2 = 200$

$x^2 = 200/2$

$x^2 = 100$

$x = \sqrt{100}$

$x_1 =$ ☐ $x_2 = -10$

$4x^2 - 26 = 74$

$4x^2 = 74 + 26$

$4x^2 = 100$

$x^2 = 100/4$

$x^2 = 25$

$x = \sqrt{\square}$

$x_1 = 5$ $x_2 =$ ☐

$3x^2 - 10 = 2$

$3x^2 = 2 + 10$

$3x^2 = 12$

$x^2 = 12/3$

$x^2 =$ ☐

$x = \sqrt{\square}$

$x_1 = 2$ $x_2 =$ ☐

$2x^2 - 5 = 3$

$2x^2 = 3 \square 5$

$2x^2 = 8$

$x^2 = 8 \square 2$

$x^2 = 4$

$x = \sqrt{4}$

$x_1 =$ ☐ $x_2 = -2$

$10x^2 - 200 = 50$

$10x^2 = 50 + 200$

$10x^2 =$ ☐

$x^2 = 250/\square$

$x^2 = 25$

$x = \sqrt{25}$

$x_1 = 5$ $x_2 = -5$

LIVEWORKSHEETS

Exemplo:

$8X^2 + 20 = 220$

$8X^2 = 220 - 20$

$8X^2 = 200$

$X^2 = 200/8$

$X^2 = 25$

$X = \sqrt{25}$

$x_1 = 5 \qquad x_2 = -5$

$2x^2 + 61 = 79$

$2x^2 = 79 - 61$

$2x^2 = 18$

$x^2 = \square / 2$

$x^2 = \square$

$x = \sqrt{\square}$

$x_1 = 3 \qquad x_2 = \square$

$3x^2 + 10 = 22$

$3x^2 = 22 \square 10$

$3x^2 = 12$

$x^2 = 12 / 3$

$x^2 = 4$

$x = \sqrt{\square}$

$x_1 = \square \qquad x_2 = -2$

$3x^2 + 10 = 85$

$3x^2 = 85 - 10$

$3x^2 = \square$

$x^2 = 75 / 3$

$x^2 = 25$

$x = \sqrt{25}$

$x_1 = \square \qquad x_2 = -5$

$10x^2 + 200 = 240$

$10x^2 = 240 - 200$

$10x^2 = \square$

$x^2 = 40 / 10$

$x^2 = 4$

$x = \sqrt{\square}$

$x_1 = 2 \qquad x_2 = -2$

$10x^2 + 200 = 840$

$10x^2 = 840 - 200$

$10x^2 = \square$

$x^2 = 640 / 10$

$x^2 = 64$

$x = \sqrt{\square}$

$x_1 = 8 \qquad x_2 = -8$

LIVEWORKSHEETS

Exemplo:

$$\frac{x^2 - 10}{6} = 15$$

$X^2 - 10 = (15)(6)$

$X^2 - 10 = 90$

$X^2 = 90 + 10$

$X^2 = 100$

$X = \sqrt{100}$

$X_1 = 10$ $x_2 = -10$

$$\frac{x^2 + 10}{2} = 7$$

$X^2 + 10 = (7)(2)$

$X^2 + 10 = 14$

$X^2 = 14 - 10$

$X^2 = 4$

$X = \sqrt{4}$

$X_1 =$ ☐ $x_2 = -2$

$$\frac{x^2 - 50}{50} = 1$$

$X^2 - 50 = (1)(50)$

$X^2 - 10 = 50$

$X^2 = 50 + 50$

$X^2 =$ ☐

$X = \sqrt{100}$

$X_1 =$ ☐ $x_2 = -10$

$$\frac{x^2 - 20}{5} = 1$$

$X^2 - 20 = (1)(5)$

$X^2 - 20 = 5$

$X^2 = 5 + 20$

$X^2 =$ ☐

$X = \sqrt{25}$

$X_1 = 5$ $x_2 =$ ☐

$$\frac{x^2 + 100}{20} = 10$$

$X^2 + 100 = ($ ☐ $)(20)$

$X^2 - 100 = 200$

$X^2 = 200 - 100$

$X^2 = 100$

$X = \sqrt{100}$

$X_1 =$ ☐ $x_2 =$ ☐

$$\frac{x^2 + 20}{15} = 3$$

$X^2 + 20 = (3)($ ☐ $)$

$X^2 + 20 = 45$

$X^2 = 45 -$ ☐

$X^2 = 25$

$X = \sqrt{25}$

$X_1 = 5$ $x_2 =$ ☐

LIVEWORKSHEETS

DEIXE SEU COMENTÁRIO:

LIVEWORKSHEETS