

ניסיון 15.0

300

$$(x+5)(x-2)=60 \quad (1)$$

$$x^2 + 5x - 2x - 10 = 60 \quad | -$$

$$x^2 + 3x - 10 = 60 \quad | -60$$

$$x^2 + 3x - 70 = 0$$

$$\frac{-3 \pm \sqrt{3^2 - 4(-70)}}{2}$$

$$\frac{-3 \pm \sqrt{289}}{2} = \frac{-3 \pm 17}{2}$$

$$x_1 = \frac{-3 + 17}{2} = 7$$

$$x(x-3)=10 \quad (3)$$

$$x^2 - 3x = 10 \quad | -10$$

$$\frac{3 \pm \sqrt{(-3)^2 - 4(-10)}}{2}$$

$$x^2 - 3x - 10 = 0$$

$$\frac{3 \pm \sqrt{(-3)^2 - 4(-10)}}{2}$$

$$\frac{3 \pm \sqrt{9 + 40}}{2}$$

$$\frac{3 \pm \sqrt{49}}{2}$$

$$\frac{3 \pm 7}{2}$$

$$x_1 = \frac{3 + 7}{2} = \frac{10}{2} = 5$$

$$x_2 = \frac{3 - 7}{2} = \frac{-4}{2} = -2$$

ניסיון 13.0
(15.0) 12, 5

$$x \cdot 2x = 50$$

1. (4)

$$2x^2 = 50 \quad | : 2$$

$$x^2 = 25 \quad | \sqrt{}$$

$$\boxed{x = 5}$$

2

$$2x = 10$$

$$x \cdot (x+7) = 44 \quad (10)$$

$$x^2 + 7x = 44 \quad | -44$$

$$x^2 + 7x - 44 = 0$$

$$\frac{-7 \pm \sqrt{7^2 - 4 \cdot (-44)}}{2}$$

$$\frac{-7 \pm \sqrt{49 + 176}}{2}$$

$$\frac{-7 \pm \sqrt{225}}{2}$$

$$\frac{-7 \pm 15}{2}$$

$$x_1 = \frac{-7 + 15}{2} = \frac{8}{2} = 4$$

$$x_2 = \frac{-7 - 15}{2} = \frac{-22}{2} = -11$$

~~$$(x+3)(2x-1) = 72$$~~

~~$$(x+3)(2x-1) = 72$$~~

~~$$2x^2 - x + 5x - 3 = 72$$~~

~~$$2x^2 + 4x - 3 = 72 \quad | -72$$~~

~~$$2x^2 + 4x - 75 = 0$$~~

~~$$\frac{-4 \pm \sqrt{4^2 - 4 \cdot 2 \cdot (-75)}}{2}$$~~

~~$$\frac{-4 \pm \sqrt{16 + 600}}{2}$$~~

~~$$\frac{-4 \pm \sqrt{4^2 - 4 \cdot 2 \cdot (-75)}}{2}$$~~

~~$$\frac{-4 \pm \sqrt{16}}{2}$$~~

$$20 + 80 = 100$$

$$x(20 + 80) = 250$$

$$100x = 250 \quad | :100$$

$$1x = 2.5$$

$$x = 2.5$$

$$\text{הון} \quad 100.10 \quad (16)$$

$$300.20 \quad \text{הון}$$

$$\text{הון} \quad 200.20$$

$$1.20 \quad \text{הון}$$

$$(x+6)^2 - x^2 = 81 \quad (15)$$

$$(x+6)(x+6) - x^2 = 81$$

$$x^2 + 6x + 6x + 36 - x^2 = 81$$

$$12x + 36 = 81 \quad | -36$$

$$12x = 45$$

$$(x+6)^2 - x^2 = 81 \quad (15)$$

$$x^2 + 12x + 36 - x^2 = 81$$

$$12x + 36 = 81$$

$$12x + 36 = 81 \quad | -36$$

$$12x = 45$$

$$x = 3.75$$

$$(3.75)$$

$$3(x+4x) = 300 \quad | :3 \quad (12)$$

$$x+9x = 100$$

$$5x = 100 \quad | :5$$

$$x = 20$$

$$\text{גולד} \quad \text{שיף} \quad 20 \quad .10$$

$$\text{רף} \quad 60 \quad .2$$

$$(x+6)^2 - x^2 = 81 \quad .2 \quad (15)$$

$$x^2 + 12x + 36 - x^2 = 81$$

$$12x + 36 = 81 \quad | -36$$

$$12x = 45$$

$$\boxed{x = 3.75}$$

$$(x+6)^2 \quad .10$$

$$14.0625 \quad : 175 \quad \text{נול} \quad .0$$

$$95.0625 \quad : 175 \quad \text{נול} \quad .0$$

$$14.8 \quad |^{\circ}$$

3/4

$$n \approx 1500 = 7500 \quad n_{60} (7)$$

$$n \approx 1125 = 60120 \quad n_{60}$$

$$(30-x) \cdot (50-x) = 1125$$

$$1500 - 30x - 50x + x^2 = 1125$$

$$x^2 - 80x + 1500 = 1125 \quad | -1125$$

$$x^2 - 80x + 375 = 0$$

$$\frac{80 \pm \sqrt{(-80)^2 - 4 \cdot 375}}{2} \quad \text{NO}$$

$$\frac{80 \pm \sqrt{6400 - 1500}}{2}$$

$$\frac{80 \pm \sqrt{4900}}{2}$$

$$\frac{80 \pm 70}{2}$$

$$x_1 = \frac{80 + 70}{2} = \frac{150}{2} = 75$$

$$x_2 = \frac{80 - 70}{2} = \frac{10}{2} = 5$$

$$\boxed{x = 5}$$

$$4525 = 60120 \quad 322$$

$$(x+3)(2x-1) \cdot 11$$

$$(x+3)(2x-1) = 72 \quad 2$$

$$2x^2 + 6x - x - 3 = 72$$

$$2x^2 + 5x - 3 = 72 \quad | -72$$

$$2x^2 + 5x - 75 = 0$$

$$\frac{-5 \pm \sqrt{5^2 - 4 \cdot 2 \cdot (-75)}}{4}$$

$$= \frac{-5 \pm \sqrt{25 + 600}}{4}$$

$$= \frac{-5 \pm \sqrt{625}}{4}$$

$$= \frac{-5 \pm 25}{4}$$

$$x_1 = \frac{-5 + 25}{4} = \frac{20}{4} = 5$$

$$x_2 = \frac{-5 - 25}{4} = \frac{-30}{4} = -7.5 \quad \text{X}$$

$$\boxed{x = 5}$$

$$\boxed{8, 9 \text{ תוצאות } 9}$$

$$x+3 = 2x-1 \quad | -x$$

$$3 = x-1 \quad | +1$$

$$\boxed{4 = x}$$

$$\boxed{7^2 = 49}$$

$$\boxed{18 \pm 12}$$

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