

משוואות ריבועיות

$$x^2 - 16x - 420 = 0 \quad .17$$

$$3x(x-4) + 7 = x^2 + 3x \quad .18$$

$$(x-5)^2 + x(x+2) = 89 \quad .19$$

$$(x+9)^2 + (x+5)(x-2) = 45 - 2x^2 \quad .20$$

$$x(5x-20) + (2x-5)^2 = 181 - (x+3)(x+2) \quad .21$$

$$(4x+1)^2 - 4(3x-1)^2 + (x-7)^2 = 2(x+1) \quad .22$$

$$(x+2)(x-3)(x+4) = (x+6)(x-5)(x-1) \quad .23$$

$$\frac{19}{x} = 2 + \frac{x-2}{7} \quad .24$$

$$\frac{5}{x+1} + \frac{3}{x-1} = 2 \quad .25$$

$$\frac{3}{x-4} + \frac{4}{x-2} = \frac{10}{x} \quad .26$$

$$\frac{x-3}{x+2} + \frac{x-1}{x-2} = \frac{x^2+16}{x^2-4} \quad .27$$

$$\frac{6}{x-2} + \frac{4}{x-3} = \frac{x^2-2}{x^2-5x+6} \quad .28$$

$$\frac{x-3}{x-7} - \frac{2x}{3-x} - \frac{7x+9}{x^2-10x+21} = 0 \quad .29$$

$$\frac{9}{4x^2-1} = \frac{5}{2x+1} - \frac{2}{6x-3} + 2 \quad .30$$

$$x^2 = 49 \quad .1$$

$$2x^2 - 72 = 0 \quad .2$$

$$16x^2 - 9 = 0 \quad .3$$

$$120 - x^2 = 2x^2 - 72 \quad .4$$

$$-3x(5-2x) + 3x = 2(x^2 - 6x + 8) \quad .5$$

$$(2x-5)(x-7) = x(x-12) - 7x + 116 \quad .6$$

$$\frac{11}{3x^2+8} = \frac{3}{4x^2-1} \quad .7$$

$$\frac{x}{x+6} + \frac{x}{x-6} = \frac{8}{3} \quad .8$$

$$x^2 - 6x = 0 \quad .9$$

$$4x^2 - 7x = 0 \quad .10$$

$$(3x+5)^2 - 5(2x+5) = 0 \quad .11$$

$$(5x+6)^2 = 4(x-3)^2 \quad .12$$

$$\frac{x+2}{x+3} = \frac{3x+4}{6-x} \quad .13$$

$$\frac{(3x-2)^2}{4} = \frac{(4x-3)^2}{9} \quad .14$$

$$x^2 - 8x + 15 = 0 \quad .15$$

$$-x^2 + 13x + 30 = 0 \quad .16$$

פתרונות

$7, -19$.24	$30, -14$.17	$0, \frac{7}{4}$.10	± 7	.1
$4, 0$.25	$7, \frac{1}{2}$.18	$0, -\frac{20}{9}$.11	± 6	.2
$10, \frac{8}{3}$.26	$8, -4$.19	$0, -\frac{4}{3}$.12	$\pm \frac{3}{4}$.3
6	.27	$-2, -3\frac{1}{4}$.20	$0, -2\frac{1}{4}$.13	± 8	.4
$4, 6$.28	$6, -2\frac{1}{2}$.21	$0, \frac{12}{17}$.14	± 2	.5
$9, 0$.29	$2, -\frac{22}{19}$.22	$3, 5$.15	± 9	.6
$1, -\frac{25}{12}$.30	$2, -9$.23	$15, -2$.16	± 1	.7
						± 12	.8
						$0, 6$.9

$$\frac{3}{2(x+1)} + \frac{4}{x^2-1} = \frac{3x}{2(x-1)^2} \quad .31$$

$$\frac{5}{3x+2} - \frac{5x-2}{9x^2-6x} - \frac{5(x-1)}{9x^2-4} = 0 \quad .32$$

$$\frac{6}{2x+5} - \frac{8x-11}{6x-15} = \frac{1}{3} - \frac{14x^2-20}{8x^2-50} \quad .33$$

$$\frac{3x+6}{x^2+5x-14} + \frac{4}{x^2-8x+12} = \frac{x+12}{x^2+x-42} \quad .34$$

$$\frac{8}{(x+3)^2} - \frac{4}{x^2-9} = \frac{10}{x^2-9x+18} \quad .35$$

$$\frac{20}{x^2-8x} - \frac{x-10}{x^2+8x} = \frac{36}{x^2-64} \quad .36$$

$$\frac{x-3}{x+2} + \frac{x-1}{x-2} = \frac{x^2+16}{x^2-4} \quad .37$$

$$\frac{1}{x-5} - \frac{5}{3x+15} = \frac{8}{x^2-25} \quad .38$$

$$\frac{4}{2x^2+3x-2} - \frac{3}{2x^2-5x+2} = \frac{x-6}{x^2-4} \quad .39$$

$$\frac{5}{2x^2+3x-2} - \frac{3}{2x^2-5x+2} + \frac{2x}{x^2-4} = 0 \quad .40$$

$$x^2 + \frac{x-1}{x^2+x-12} = 12-x + \frac{x-1}{x^2+x-12} \quad .41$$

תעלות

-5 .31

1 , $\frac{4}{15}$.32

2 , -20 .33

1 , 8 .34

1 , -21 .35

10 .36

6 .37

8 .38

5 .39

אין פתרון .40

אין פתרון .41