

(-1+2p)(3-4p) -3+4p+6p-8p² |-8p²+10p-3

 $\chi^2 + 7x - 30 = (\chi + 10)(x - 3)$

Quadratic tornula

 $X = -b \pm \sqrt{b^2 - 4ac}$

x 2-3x-10

(x-5)(x+2)

$$\begin{array}{c} \chi^{2} + 5xy + 6y^{2} \\ (x + 3y)(x + 2y) \\ \chi^{2} + 2xy + 3xy + 6y^{2} \\ \chi^{2} + 5xy + 6y^{2} \\ \chi^{2} + 5xy + 6y^{2} \\ \hline \chi^{2} - 14x + 40 \\ (x - 10)(x - 4) \\ \end{array}$$

 $x^2 - x - 42 = |(x - 7)(x + 6)|$

X4-5x2+6

$$9x^{2} + 6x + 12x + 8$$

$$(9x^{2} + 6x) + (12x + 8)$$

$$3x(3x + 2) + 4(3x + 2)$$

$$\boxed{3x + 4}(3x + 2)$$

$$5x^{2} + 10x) + (2x + 4)$$

$$5x(x + 2) + 2(x + 2)$$

$$6x + 3) + (8x^{2} + 4x)$$

$$(2 + 10x) + (2x + 4)$$

 $(x + 2) + 2(x + 4)$

$$5x(x+2) + 2(x+2)$$

$$5x(x+2) + 2(x+2)$$

$$(x+2)(5x+2)$$

8x2+6x + 4x +3

 $\frac{3(2x+1)+4x(2x+1)}{(4x+3)(2x+1)}$

3x2+6x-x-2

$$\frac{\left[(3x-lo)(x+1)\right]}{\left(2x^{3}+l0x^{2}\right)+\left(3x+15\right)}$$
$$2x^{2}(x+5)+3(x+5)$$

 $\left| \left(2x^2 + 3 \right) \left(x + 5 \right) \right|$

 $2x^2 - 3x - 4x + 6$

4x2 + 16x + 15

$$2x^{2}-3x-9 \qquad (2x^{2}-6x)+(3x-9)$$

$$2 \cdot -9 = -18 \qquad 2x(x-3)+3(x-3)$$

$$x+y=-3 \qquad (2x+3)(x-3)$$

 $3x^2 + 10x + 8$

 $\chi + y = -3$

-6.3=-18

-6+3=-3

$$3x^{2}-2x-5$$

$$3\cdot -5 = -15$$

$$x+y = -2$$

$$-5+3 = -2$$

$$3x(x+1)-5(x+1)$$

$$3x(x+1)-5(x+1)$$

$$6x^{2}-13x+6$$

$$6x^{2}-9x-4x+6$$

$$6\cdot 6=36$$

$$3x(2x-3)-2(2x-3)$$

$$6 \cdot 6 = 36$$

$$x + y = -13$$

$$-9 - 4 = -13$$

$$12x^{2} + 17x + 6$$

$$12 \cdot 6 = 72$$

x+y=17

8+9=17

$$|2x^{2} + 8x + 9x + 6$$

$$|4x(3x + 2) + 3(3x + 2)$$

$$|(4x + 3)(3x + 2)|$$

 $\left| \left(3x - 2 \right) \left(2x - 3 \right) \right|$

$$44h^{5} - 66h^{4} + 77h^{3}$$

$$11h^{3}(4h^{2} - 6h + 7)$$

$$30h^{3} + 6h^{2}$$

$$6h^{2}(5h + 1)$$

$$15x^{2} - 4x - 4$$

$$15x - 4 - 60$$

$$x + 4 = -4$$

$$15x^{2} - 10x + 6x - 4$$

$$15x(3x - 2) + 2(3x - 2)$$

$$(5x + 2)(3x - 2)$$

8.-5=-40 X+y=-18 -20+2=-18 8x2+2x-70x-5 2x(4x+1)-5(4x+1)(2x-5)(4x+1)

 $8x^2 - 18x - 5$

$$\frac{\chi^{2}-6\chi+9}{(\chi-3)(\chi-3)} = \frac{\chi^{2}+1/4\chi+49}{(\chi+7)(\chi+7)} = \frac{\chi^{2}+1/4\chi+49}{(\chi+7)(\chi+7)} = \frac{\chi^{2}+30\chi+25}{(\chi+7)^{2}} = \frac{4\chi^{2}-20\chi+25}{4\cdot25=(90)} = \frac{15+15=30}{(4\chi^{2}-10\chi-10\chi+25)} = \frac{\chi^{2}+1/4\chi+49}{(\chi+7)(\chi+7)} = \frac{\chi^{2}+1/4\chi+4}{(\chi+7)(\chi+7)} = \frac{\chi^{2}+1/4\chi+4}{(\chi+7)(\chi+7)} = \frac{\chi^{2}+1/4\chi+4}{(\chi+7)(\chi+7)} = \frac{\chi$$

X2+6x+9

2x(2x-5)-5(2x-5)

(2x-5)(2x-5)

 $\left| \left(2x-5 \right)^2 \right|$

(x+3)(x+3) or $(x+3)^2$

 $(a + b)^2 = a^2 + 2ab + b^2$

 $(a-b)^2 = a^2 - 2ab + b^2$

9x2 + 24xy + 16y2

9.16 = 144

x4 + 2x2 + 1

-4+2-12t-9

4f. 2 + 12t fg

(24) + 2.2.3x + 32

 $(2x + 3)^2$

 $(\chi^2 + I)(\chi^2 + I)$

3x2+27

56-18x + x2

 $\frac{2x}{2} = \frac{-1}{2} \left| x = -\frac{1}{2} \right|$

(x+5)(x+7) = 0

$$3x^{2} + 11x - 4 = 0$$

$$3 \cdot -4 = -12$$

$$x + y = 11$$

$$12 - 1 = 11$$

$$(3x^{2} + 12x)(-1x - 4) = 0$$

$$3x(x + 4) - 1(x + 4) = 0$$

$$3x - 1 = 0 \quad x + 4 = 0$$

$$13x - 1 + 1 \quad x = -4$$

$$13x = 1$$

X = - Y

 $3x^2 - 9x - 20 = x^2 + 5x + 16$

 $-x^2-5x-16$ $-x^2-5x-16$

 $\chi = \frac{1}{3}$

2x2-14x-36

$$(x-9)(x+6)$$

$$X=9, x=-6$$

$$3x^2 + 33x + 30 = 0$$

$$3(x^2 + 1/y + 10) = 6$$

 $2x^2 - 3x - 20 = x_e^p + 34$

 $x^2 - 3x - 20 = 34$

x2-3x-54

$$3x^{2} + 33x + 30 = 0$$

$$3(x^{2} + 11x + 10) = 0$$

$$3(x + 10)(x + 1) = 0$$

12 (x2-7x-18)

2(x-9)(x+2)

 $\int X = 9$, X = -2

$$3x^{2} + 33x + 30 = 0$$

$$3(x^{2} + 11x + 10) = 0$$

$$3(x + 10)(x + 1) = 0$$

$$X = -10, x = -1$$

$$\begin{array}{c|c}
-6 \\
\hline
80 = 0 \\
0 = 0
\end{array}$$

$$(x^{2}+3)^{2} = 4x^{2}+12$$

$$(x^{2}+3)(x^{2}+3) = 4x^{2}+12$$

$$(x^{2}+3)(x^{2}+3) = 4x^{2}+12$$

$$x^{4}+3x^{2}+3x^{2}+9 = 4x^{2}+12$$

$$x^{4}+6x^{2}+9 = 4x^{2}+12$$

$$-4x^{2}-12 - 4x - (2)$$

$$x^{4}+2x^{2}-3 = 0 \qquad (x^{4}+3x^{2})+(x^{2}-3)=0$$

 $3x^2 + 3x - 90 = 0$

 $3(x^2 + x - 30) = \emptyset$

3(x+6)(x-5) = 0

 $\chi^{2}(\chi^{2}+3)+1(\chi^{2}-3)=0$

 $\left(\chi^{2}+1\right)\left(\chi^{2}+3\right)\left(\chi^{-3}\right)=0$

 $\chi^{2} + 14x + 49 = 0$

 $x^{9} + 2x^{2} - 3 = 0$

(0-3 =-3

X+y=2

3-1=2

(x+7)(x+7)

 $(x+2)^{2}$

 $3(\chi^2-49)$

4-12x +9x2

 $9x^2 - 12x + 4$

9x2-6x-6x +4

$$4x^{2} + 72x + 320 = 0$$

$$4(x^{2} + 18x + 80) = 0$$

4(x+10)(x+8)=0

X=-(0, X=-8

 $|\chi^2 - | = \emptyset$

$$\begin{array}{c|c}
20y^{6} - |5y^{4} + 40y^{2}| & 3x(x^{2} - 5x + 6) \\
5y^{2}(4y^{4} - 3y^{2} + 8) & 3x^{3} - |5x^{2} + |8x| \\
(9 + 9)(8 - 9)
\end{array}$$

$$\frac{9+9}{72-9q+8q-q^2}$$

$$\frac{72-9q+8q-q^2}{-q^2-q+72}$$