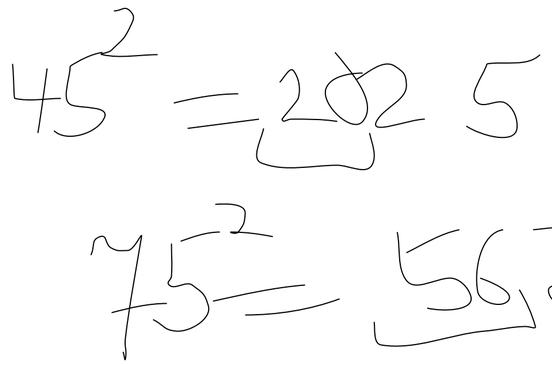
Деление на x^2

1) $(2x^2 - 3x + 1)(2x^2 + 5x + 1) = 9x^2$

2) $(x + 2)(x + 3)(x + 8)(x + 12) = 4x^2$

$(x + 2)(x + 3)(x + 8)(x + 12) = 4x^2$
$(x^2+12x+2x+24)(x^2+8x+3x+24)=4x^2$
$(x^2+12x+2x+24)/x(x^2+8x+3x+24)/x=4$
$(x+14+24/x)(x+11+24/x)=4$
$x+24/x=y$
$(y+14)(y+11)=4$
$y^2+11y+14y+154=4$
$y^2+25y+150=0$
$y1=-15$
$y2=-10$
$x+24/x=-15/*x$
$x^2+15x+24=0$
$D=225-96=129$
$x1=(-15+V129)/2$
$x2=(-15-V129)/2$
$x+24/x=-10/*x$
$x^2+24+10x=0$
$x3=-6$
$x4=-4$

$(2x^2 - 3x + 1)/x * (2x^2 + 5x + 1)/x = 9$
$(2x - 3 + 1/x) * (2x + 5 + 1/x) = 9$
$2x+1/x=y$
$(y-3)(y+5)=9$
$y^2+5y-3y-15=9$
$y^2+2y-24=0$
$y1=4$
$y2=-6$
$2x+1/x=-4/*x$
$2x^2+4x+1=0$
$D/4=4-2=2$
$x1=(2+V2)/2$
$x2=(2-V2)/2$
$2x+1/x=-6/*x$
$2x^2+1=-6x$
$2x^2+6x+1=0$
$D/4=9-2=7$
$x3=(-3+V7)/2$
$x4=(-3-V7)/2$



(x-1)(x-3)/(x-1)=0 |*(x-1)

(x-1)(x-3)=0
x=1;3

(x^2-4x+3)/(x-1)=0 x-1!=0 x!=1

x!=0

x=a;b;c