Деление на x^2

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

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

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

$t = 2x+1/x$

$(t-3)(t+5) = 9$

$t^2 + 2t - 15 = 9$

$t^2 + 2t - 24 = 0$

$t1 t2 = -24$

$t1+t2 = -2$

$t1, t2 = -6\ 4$

$2x + 1/x = -6$:
$2x^2 + 1 = -6x$
$2x^2 + 6x + 1 = 0$
$D^* = 9 - 2 = 7$
$x1, x2 = (-3 +- \sqrt{7})/2$

$2x + 1/x = 4$
$2x^2 + 1 = 4x$
$2x^2 - 4x + 1 = 0$
$D^* = 4 - 2 = 2$
$x3, x4 = (2 +- \sqrt{2})/2$
answer : $(-3 +- \sqrt{7})/2, (2 +- \sqrt{2})/2$

虎

TIGER (TORA)