① Löse die Gleichungen in $\mathbb{Q}$!

$(5x-1)^2+(12x+2)^2=(13x-3)^2$

②

$13x^2+(6x-5)^2-(7x-2)^2=0$

③

$-11(x^2-2)+(6x+1)(6x-1)=(5x+3)^2$

④

$(3x-7)^2-(x-7)^2-(x-2)(8x+4)=0$

⑤

$(2x-3)^2+(2x-1)(2x+1)=(x-2)^2-(-7x^2+4)$

⑥

$2x(x-5)+2=x(2x-7)+3x+5$

⑦

$(7x-5)^2+4x=(7x-1)^2-3$

⑧

$3(x-1)-(6x+4)=-3x-2[(x+1)-5x+3]$