

Question 22675

3. $(x-5)^2+2(x-5)-35=0$

Let $t=x-5$, so $t^2+2t-35=0$. $D=4-4\cdot(-35)=144$. $t_{1,2}=\frac{-2\pm\sqrt{144}}{2}=5;-7$

, and $x_{1,2}=10;-2$

4. $(x-2)^2-3(x-2)+2=0$, $t=x-2$

$t^2-3t+2=0$, $D=9-4\cdot 2=1, t_{1,2}=\frac{3\pm 1}{2}=2;1$, so $x_{1,2}=4;3$