Condition:
Solve each quadratic in form equation.
3. $(x-5)^2+2(x-5)-35=0$
4. $(x-2)^2-3(x-2)+2=0$

Solution:
3: $(x-5)^2+2(x-5)-35=0$
Let $u = x-5$
$u^2+2u-35=0 \rightarrow (u+7)(u-5)=0 \rightarrow (x-5+7)(x-5-5)=0$
$(x+2)(x-10)=0$

4: $(x-2)^2-3(x-2)+2=0$
$u^2-3u+2=0$ Where $u = x-2$
$(u-1)(u-2)=0 \rightarrow (x-2-1)(x-2-2)=0$
$(x-3)(x-4)=0$

Answer: **3: $x_1=-2, x_2=10$**;
4: $x_1=3, x_2=4$.