Sendo r_1, r_2 e r_3 as raízes da equação $2x^3-4x^2+3x+1=0$, calcular $\frac{1}{r_1^2}+\frac{1}{r_2^2}+\frac{1}{r_3^2}$.

$\frac{1}{r_1^2}+\frac{1}{r_2^2}+\frac{1}{r_3^2}=\frac{(r_1r_2)^2+(r_1r_3)^2+(r_2r_3)^2}{(r_1r_2r_3)^2}=$

$=\frac{(r_1r_2+r_1r_3+r_2r_3)^2-2r_1r_2r_3(r_1+r_2+r_3)}{(r_1r_2r_3)^2}=\frac{(\frac{3}{2})^2-2\cdot(-\frac{1}{2})\cdot 2}{(-\frac{1}{2})^2}=17$

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