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Math_Questions_0021

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a) In triangle ABC, x, y, z are the midpoints of BC, CA, AB respectively. Using the law of Cosine prove that $b^2 + c^2 = 2Ax^2 + 2By^2 + 2Cz^2$

b) Write down 2 other similar results

c) Hence, show that $Ax^2 + By^2 + Cz^2 = \frac{3}{4}(a^2 + b^2 + c^2)$