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Consider a square PQRS (Figure 1(2) with side $a + b$ and prove Pythagoras' Theorem by finding the area of PQRS with two different methods. Figure 1(1) Figure 1(2) Figure 1(3)

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$\frac{1}{2}(ba) + \frac{1}{2}(c^2) + \frac{1}{2}(ab) = \frac{1}{2}(ba + c^2 + ab) = \frac{1}{2}(2ab + c^2)$. Since, this area is equal to the area of the trapezoid we have the following relation: $(\frac{1}{2})(a^2 + 2ab + b^2) = (\frac{1}{2})(2ab + c^2)$. Multiplying both sides by 2 and subtracting 2ab from both sides we get. concluding the proof.

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Given: $\triangle ABC$ is a right triangle. Prove: $a^2 + b^2 = c^2$ The ...

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