Princess Vulnavia presents ... Cloud 9; Revision Raindrops

Pythagorean Quadruplets



It is given that a, b, c and d are natural numbers.

Given that {a, b, c} is a Pythagorean triplet, prove whether or not {a, b, c, d} is a Pythagorean quadruplet.

The answer follows on the next page ...

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{a, b, c, d} cannot be a Pythagorean quadruplet since $d = (\sqrt{2}) c$ when {a, b, c} is a Pythagorean triplet.