

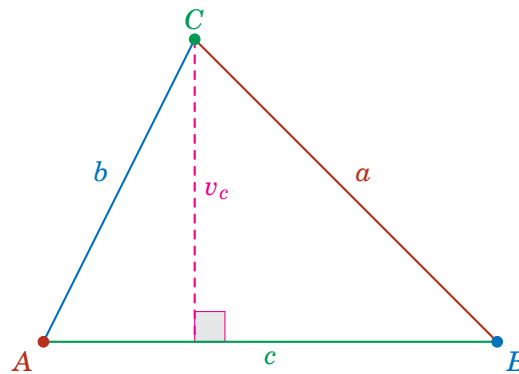
Math Exam – PreIB 3.AB 3

Pythagorean Theorem

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1. You're given the following triangle:



Calculate the length of c if you know that $a = \sqrt{41}$, $b = 5$ and $v_c = 4$.

2. Calculate the distance between $(0, 1, 2)$ and $(4, -2, 1)$ by altering the coordinates in the following order:
- (a) z, x, y ;
 - (b) x, z, y .

Remember, x is the first coordinate, y is the second and z the third. **Draw the triangles you're using to perform the calculations.**