

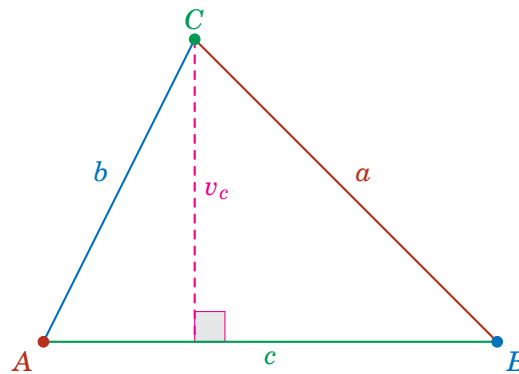
Math Exam – PreIB 3.AB 4

Pythagorean Theorem

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1. You're given the following triangle:



Calculate the length of c if you know that $a = \sqrt{32}$, $b = \sqrt{20}$ and $v_c = 4$.

2. Calculate the distance between $(1, 0, 4)$ and $(-1, 3, 5)$ by altering the coordinates in the following order:
- (a) x, y, z ;
 - (b) y, z, x .

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