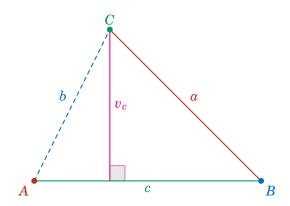
## Math Exam - PrelB 3.AB

## Pythagorean Theorem

## Áďa Klepáčů

## November 14, 2023

1. You're given the following triangle:



Calculate the length of *b* if you know that  $a = \sqrt{45}$ , c = 8 and  $v_c = 3$ .

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