

MATH 2415 Test 1 Name: _____

1. Given points $A = (1, 0, 0)$, $B = (2, 5, 0)$, and $C = (3, 2, 1)$, find the distance from A to the line through B and C .

2. Given $\vec{u} = \langle 0, 1, 1 \rangle$ and $\vec{v} = \langle 2, -2, 0 \rangle$, sketch a vector addition triangle including three arrows: \vec{u} , \vec{v} , and $\vec{v} - \vec{u}$.