Student handout   Find the area of the part of the plane $x + y + 1$ in the first octant, as shown in the figure beolw.

Missing `/var/www/paradigms_media_2/media/figures/vftriangle.jpg`

Instructor's guide

- Students may have difficulty representing the sides of the triangle as vectors. Encouraging them to represent the corners as vectors may help.

- Students may have difficulty visualizing the triangle as half of a parallelogram – and may forget the factor of $\frac{1}{2}$ even once they recognize the need for the cross product.

- Some students will solve this problem geometrically, without vectors.