

1 Workshop 12: Helpful parametrizations and a vector field

1. Let $A = (2, 2)$ and let $D = (4, 6)$. Let B and C be the other two corners of the rectangle whose opposite corners are A and D . Draw a figure and label it clearly.
 - (a) Parametrize the piecewise linear path from A to D passing through B .
 - (b) Parametrize the piecewise linear path from A to D passing through C .

2. Draw the following vector fields on the back of this page. Make *big, beautiful* pictures. Each picture should include at least 10 vectors.
 - (a) $\vec{F} = \langle 1, 0 \rangle$
 - (b) $\vec{G} = \langle 0, -2 \rangle$
 - (c) $\vec{H} = \langle x, 0 \rangle$
 - (d) $\vec{R} = \langle 0, x \rangle$
 - (e) $\vec{S} = \langle x, y \rangle$
 - (f) $\vec{T} = \langle -y, x \rangle$