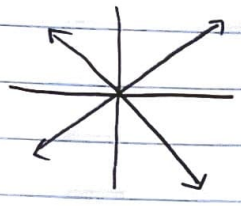
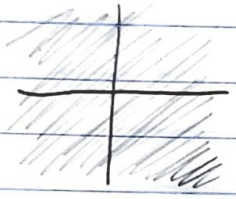
Review Sheet 12

1) $T: \mathbb{R}^2 \to \mathbb{R}^2$ reflection across the line $y = x$.



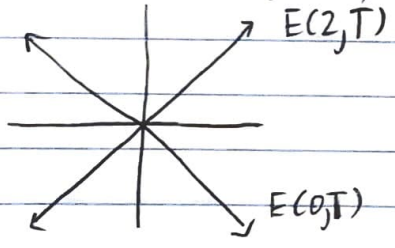
2) $T: \mathbb{R}^2 \to \mathbb{R}^2$ 180° rotation about the origin.



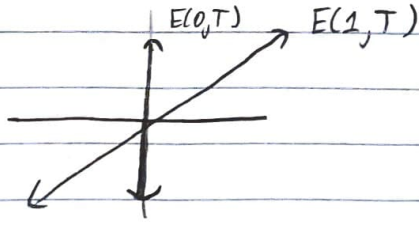
3) $T: \mathbb{R}^2 \to \mathbb{R}^2$ 60° CC rotation about the origin.

None

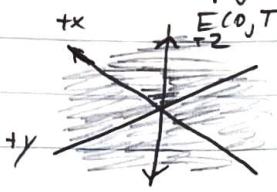
4) $T: \mathbb{R}^2 \to \mathbb{R}^2$ given by $T(x,y) = (x+y, x+y)$



5) $T: \mathbb{R}^2 \to \mathbb{R}^2$ given by "walking vertically to the line $y = x$" $T(x,y) = (x, x)$

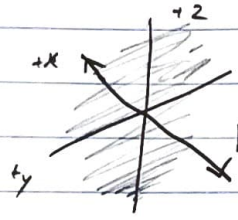


6) $T: \mathbb{R}^2 \to \mathbb{R}^3$ projection to xy-plane; $T(x, y, z) = (x, y, 0)$.



$E(1, T)$ (xy plane)

7) $T: \mathbb{R}^3 \to \mathbb{R}^3$ 180° rotation about x-axis.



$E(-1, T)$ (yz plane)

$E(1, T)$ (x-axis)

8) $T: \mathbb{R}^3 \to \mathbb{R}^3$, $T(x, y, z) = (x, 2y, 3z)$

(x-axis) $E(1, T)$