

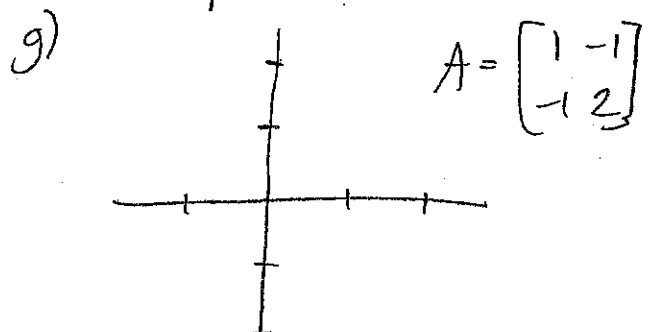
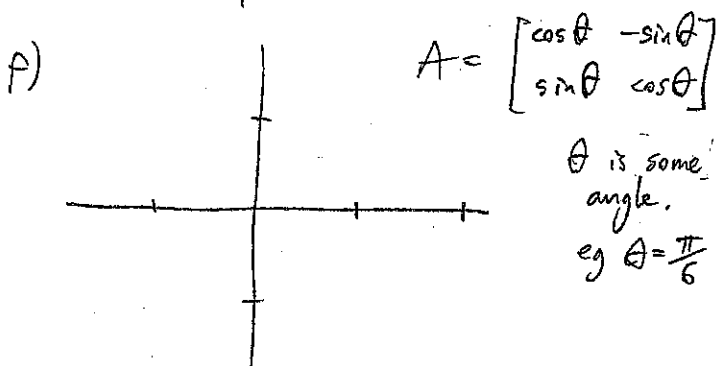
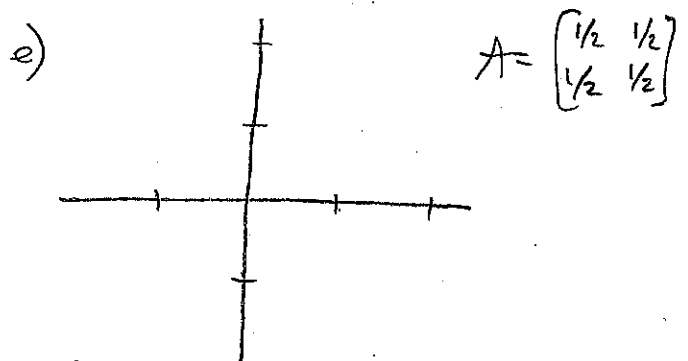
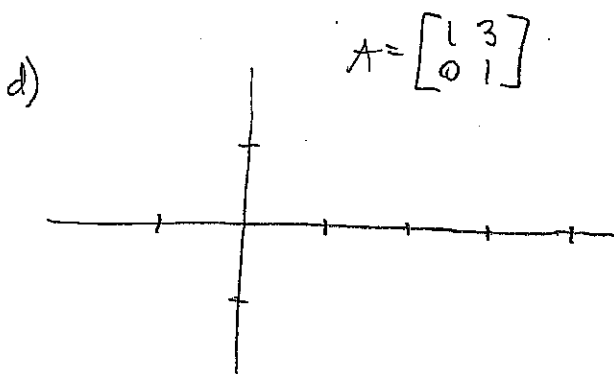
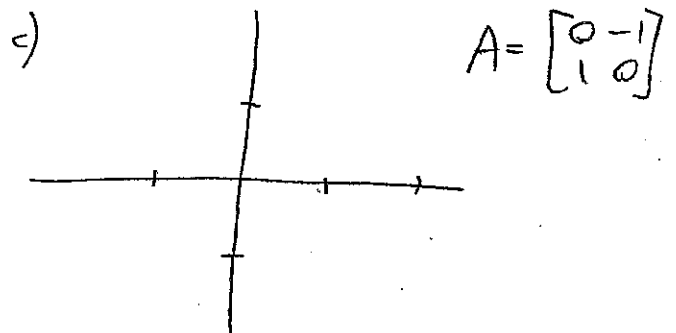
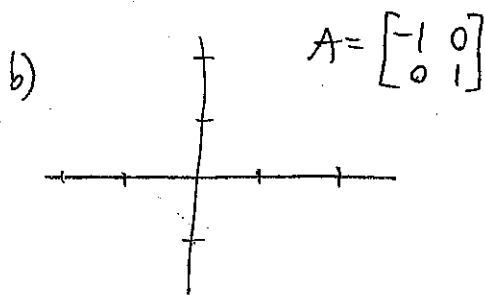
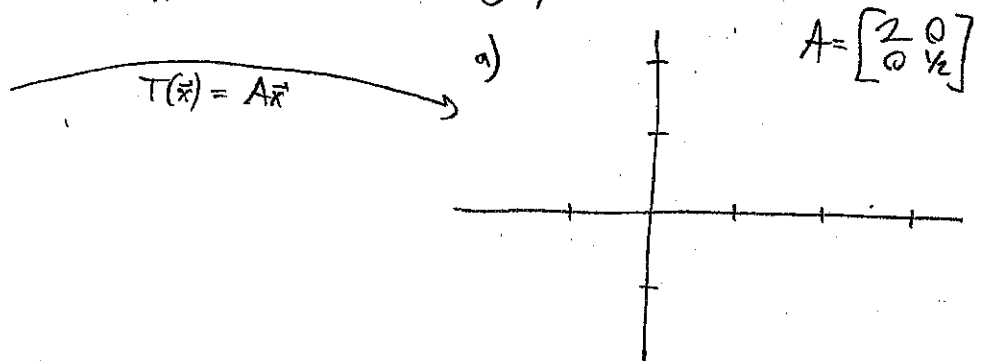
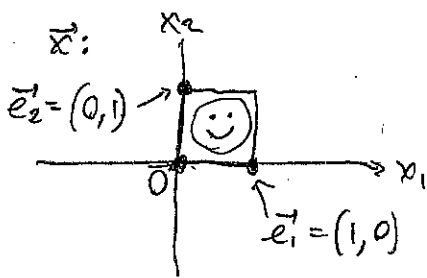
Linear Transformations WORKSHEET

9/18 Alex Barnett

$T(\vec{x}) = A\vec{x}$ when A is 2×2 is a map from \mathbb{R}^2 to \mathbb{R}^2 .

For each A given below,

- draw where points $\vec{e}_1 = (1, 0)$ and $\vec{e}_2 = (0, 1)$ get taken by T
- using them, draw where the unit square gets taken to.
- describe in (a) word(s).
- sketch what has happened to the smiley face. (careful!)



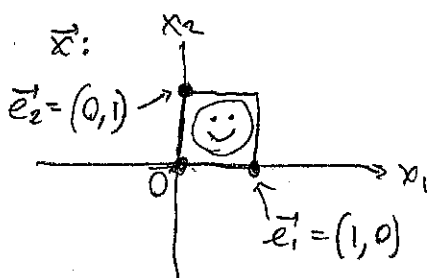
Linear Transformations WORKSHEET — answers

9/18 Alex Barnett

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$T(\vec{x}) = A\vec{x}$

