Name:
Problem 1: Consider the map

$$
f: \mathcal{P}_{1} \rightarrow \mathbb{R}^{2}
$$

given by

$$
f(a+b x)=\binom{a-b}{b} .
$$

Find the image of each of the following elements:
a) $3-2 x$
b) $2+2 x$
c) $x$

