Show that none of the following mappings $f:X\rightarrow X$ have a fixed point and explain why the Contraction Mapping Principle is not contradicted:

1. $X=(0,1)⊆R$ and $f\left(x\right)=\frac{x}{2} for x in X$
2. $X=R$ and $f\left(x\right)=x+1 for x in X$
3. $X=\left\{x^{2}+y^{2}=1\right\}and f\left(x,y\right)=\left(-y,x\right) for \left(x,y\right) in X$