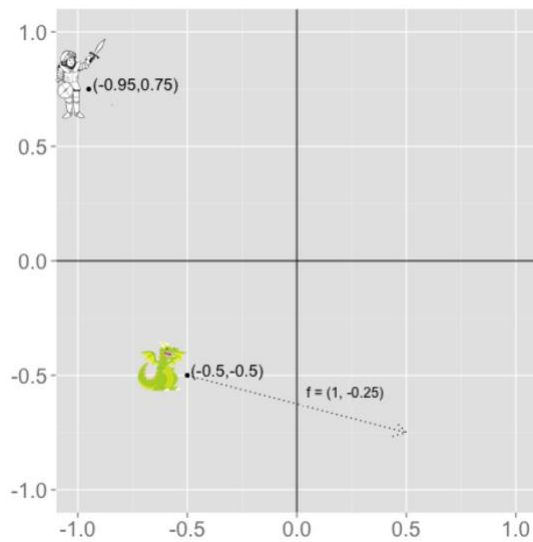


Exercises- Math Basics

Submission instructions: submit your work on Blackboard. Name your homework
Lastname.Firstname.MathBasics.pdf

1. Suppose a dragon is standing at location d with forward direction f .
 $d = (-0.5, -0.5)$, $p = (-0.95, 0.75)$, $f = (-1, 0.25)$

- Is the player at point p in front of the dragon or behind him?



2. Color mixing: Suppose that vertex A is red $(1,0,0)$ and vertex B is magenta $(1,1,0)$.
What is the color of the point that is $2/3$ of the way from A to B?
3. Where does the line through $(1,0,1)$ and $(4, -2, 2)$ intersect the plane $x + y + z = 6$?