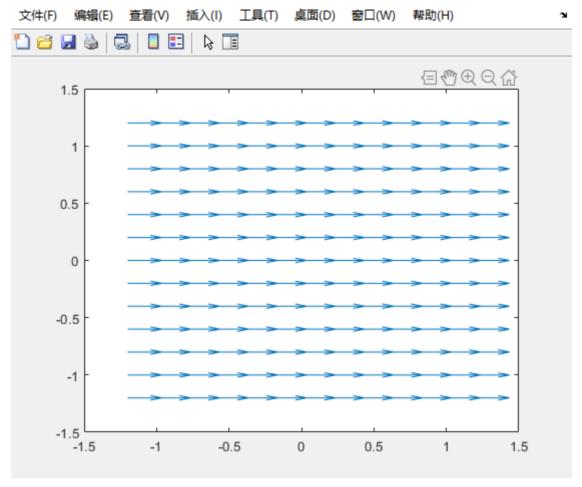
## HW1

a).

```
Uniform:
                   magnitude = C , C is a constant value
                   objection = \vec{a}, \vec{a} is an immutable direction.
Perpendicular:
                magnitude = C, C is a constant.
                 direction : \vec{p}, \vec{p} is perpendicular to wall and outwards to wall.
Attractive : 0
              d is the distance between object and center point; R is the radius of center object.
          magnitude = \begin{cases} F \cdot d \\ 0 \end{cases}, d > R
            direction = p, p is always pointing center
  Repulsive:
                  magnitude = { F.d of >R same same , d. R ispas "Attractive"
                   direction: \overrightarrow{p}, \overrightarrow{p} is always pointing outwards center.
                                                                                                                                                                                                                                                                                               to the same
  Tengrential.

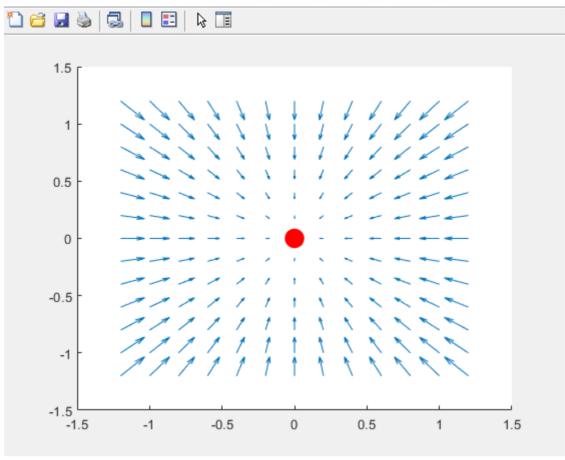
Tengrential.

magnitude: { Tengren
                                                                                                                                                                                                                                                                                      rotation direction
                                                                                                                                                                                                                                                                                              point
                       direction: \vec{p}, \vec{p} is perpendicular to the line between object and center pointing
```



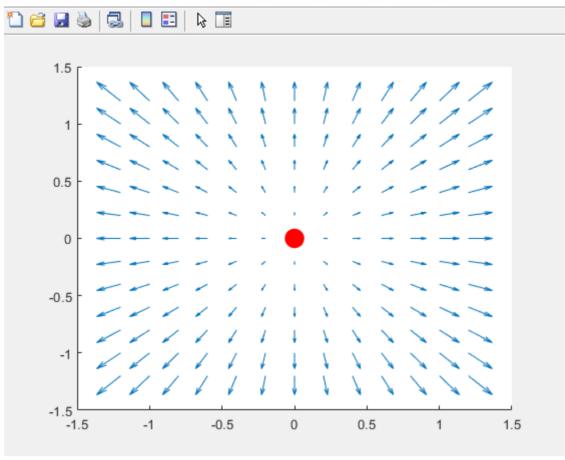
uniform

perpendicular

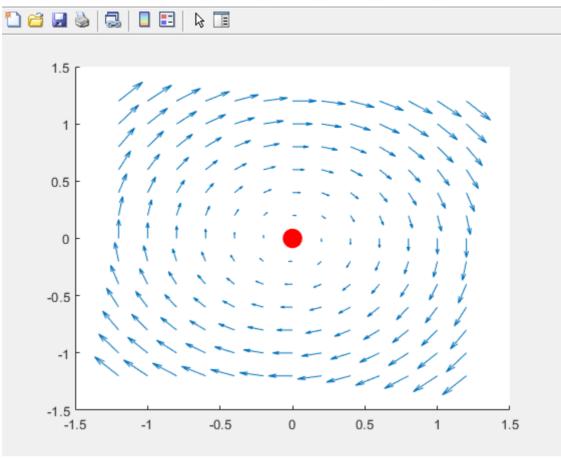


attractive



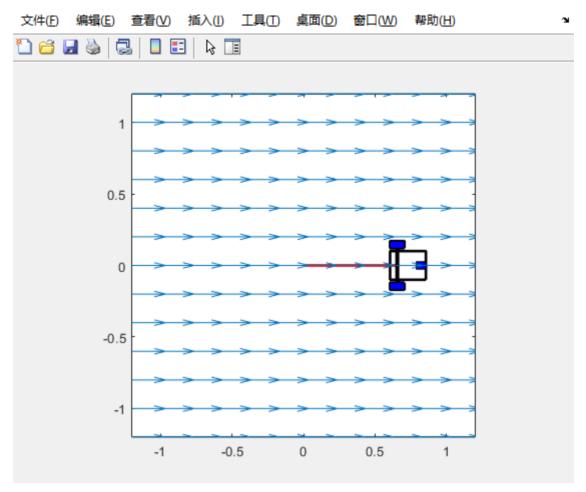


repulsive



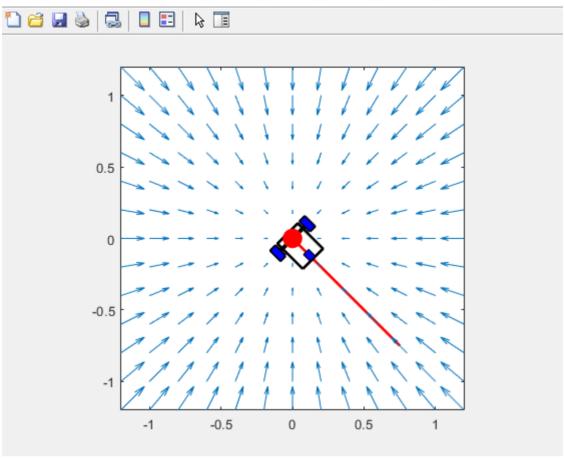
tengrential

**c**).



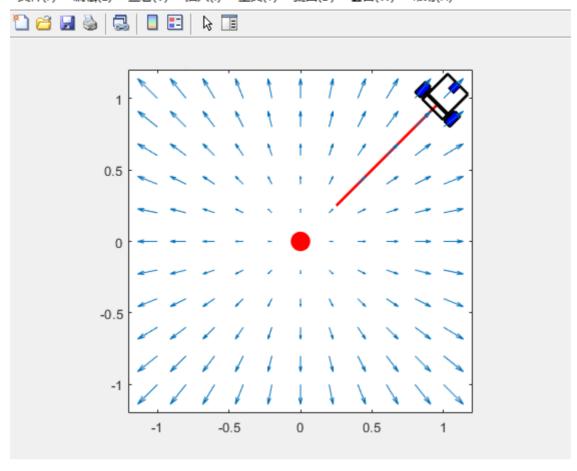
uniform

perpendicular

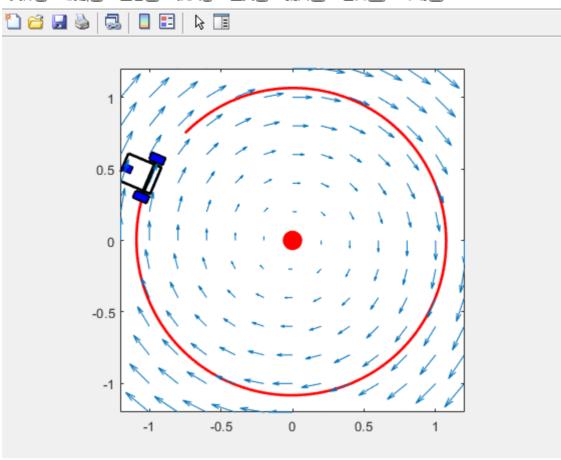


attractive





repulsive



tengrential