VECTOR FIELDS - ANSWERS

Match each vector field below with the correct image on the following page.

1. $F(x,y) = -y\hat{i} + x\hat{j}$ e

2. $F(x,y) = -y\hat{i} - x\hat{j}$ f

3. $F(x,y) = y\hat{i} - x\hat{j}$ d

4. $F(x,y) = \hat{i} - x\hat{j}$ j

5. $F(x,y) = x\hat{i} + y\hat{j}$ i

6. $F(x,y) = -x\hat{i} - y\hat{j}$ h

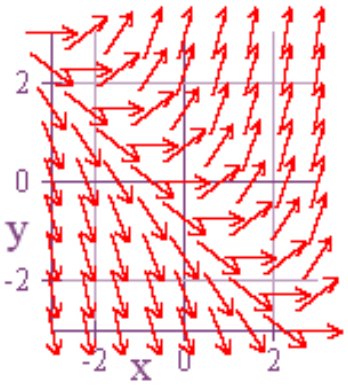
7. $F(x,y) = \hat{i} + (x+y)\hat{j}$ a

8. $F(x,y) = |x|\hat{i}$ c

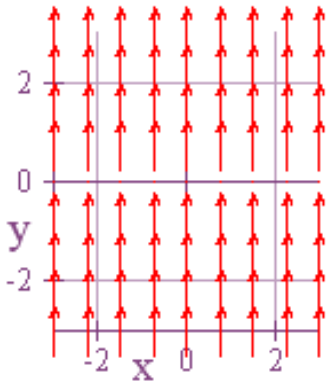
9. $F(x,y) = |y|\hat{j}$ b

10. $F(x,y) = -y\hat{i} + (x+y)\hat{j}$ g

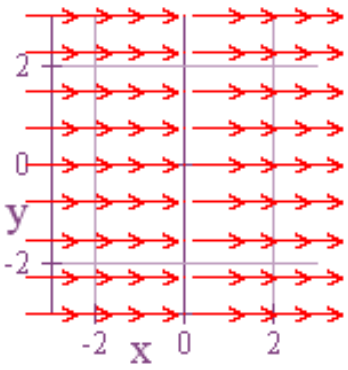
a.


2
0
y
-2
-2
x
0
2

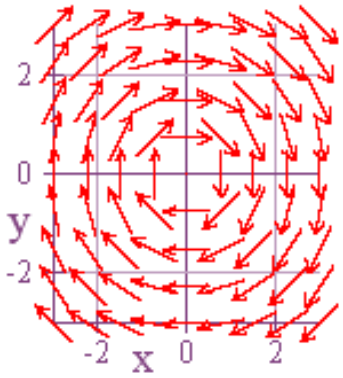
b.


2
0
y
-2
-2
x
0
2

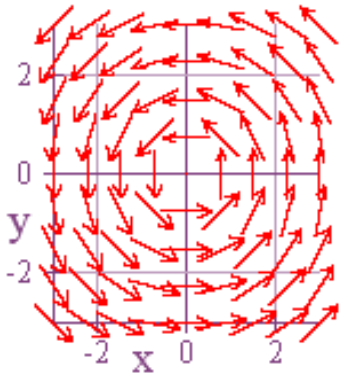
c.


2
0
y
-2
-2
x
0
2

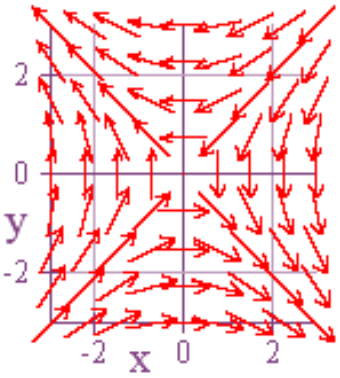
d.


2
0
y
-2
-2
x
0
2

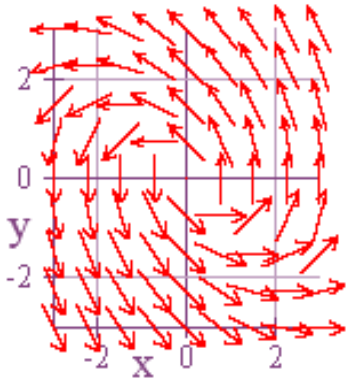
e.


2
0
y
-2
-2
x
0
2

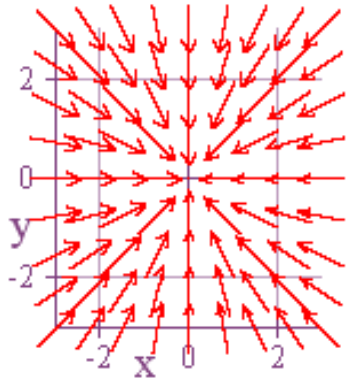
f.


2
0
y
-2
-2
x
0
2

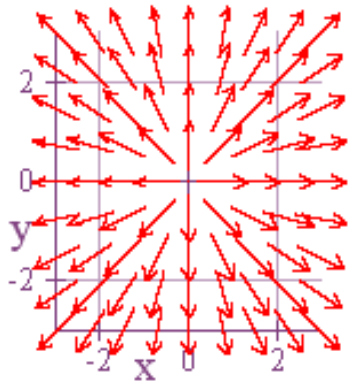
g.


2
0
y
-2
-2
x
0
2

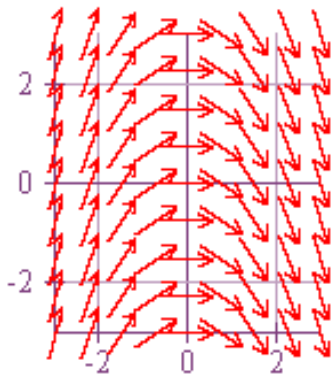
h.


2
0
y
-2
-2
x
0
2

i.


2
0
y
-2
-2
x
0
2

j.


2
0
-2
-2
0
2