

MAPLE-7

Use MAPLE to create a utility for graphing vector fields in 2-dimensions. Give your file the name “maple7-*your name*.” Follow the format below.

MAPLE 7

VECTOR FIELD GRAPHER

by
(*Your Name*)

Use *fieldplot* to graph each of the vector fields given below. When done, save the file and email to docbenton@docbenton.com. Make the subject “MAPLE7-*your name*.”

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

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

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

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

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

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

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

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

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

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