WebAssign
Hw 26 (16.1): Vector Fields (Homework)

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MA 261 Fall 2012, section 121, Fall 2012
Instructor: David Daniels

Current Score : 20 / 20 **Due :** Tuesday, October 30 2012 11:00 PM EDT

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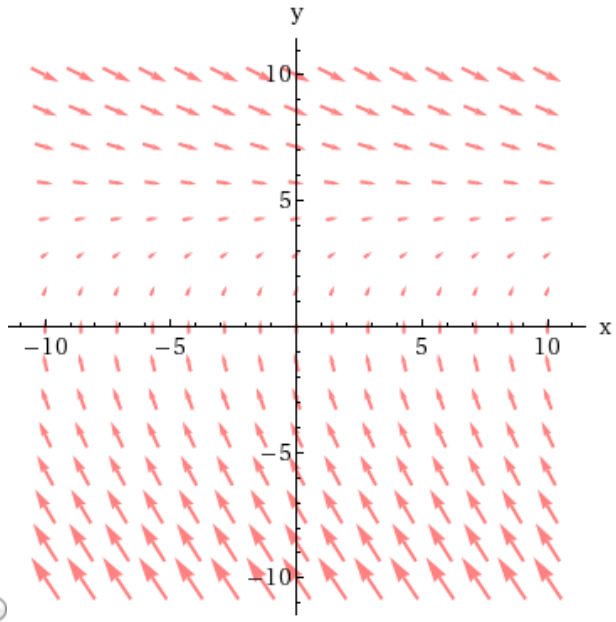
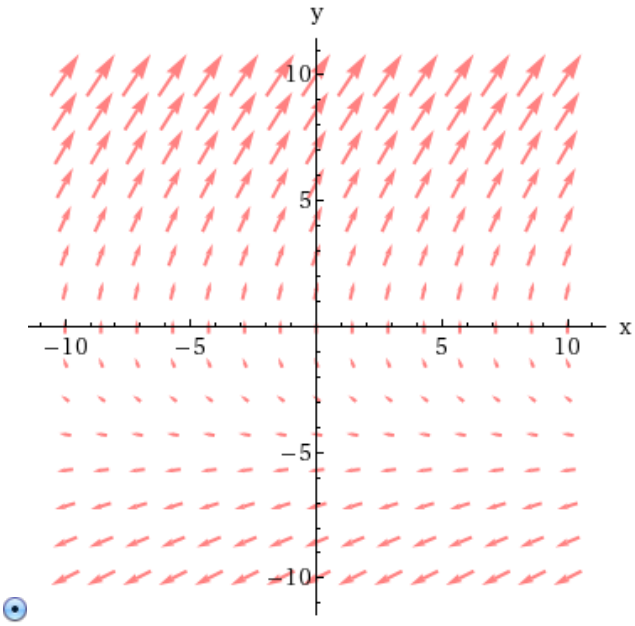
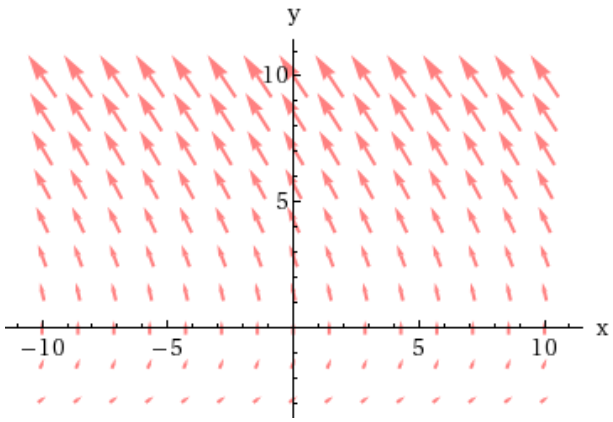
1. 4/4 points | Previous Answers SCalcET7 16.1.013.

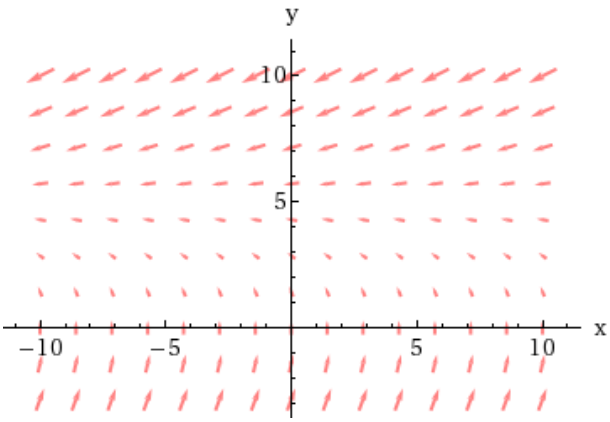
Match the vector field **F** with the correct plot.

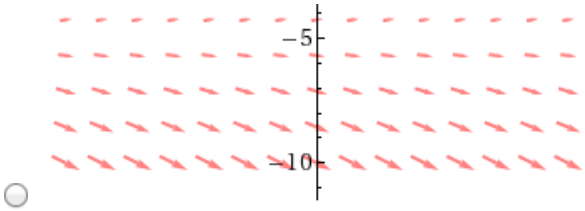
$\mathbf{F}(x, y) = \langle y, y + 5 \rangle$

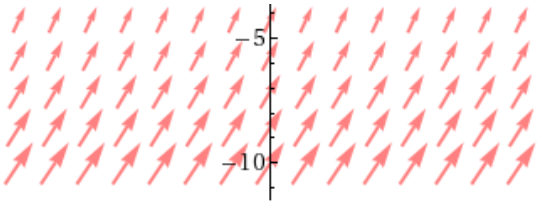












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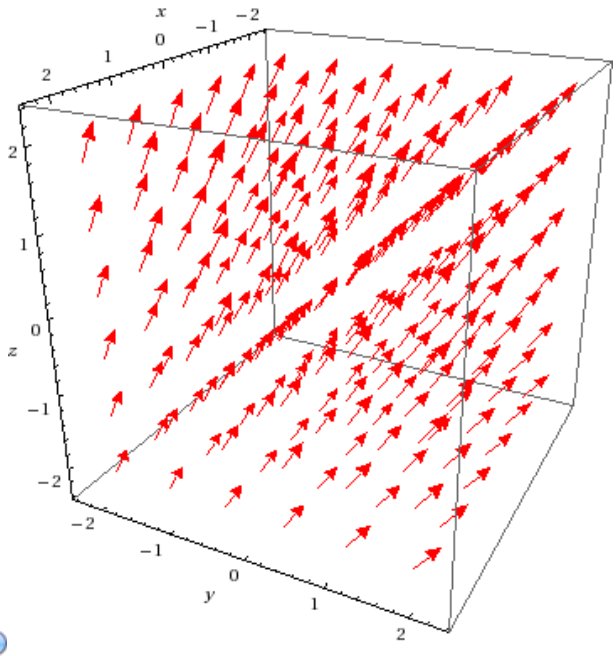
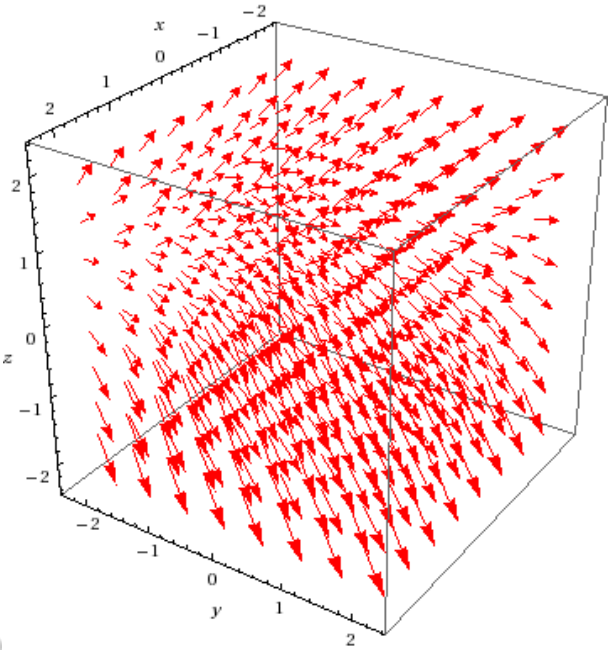
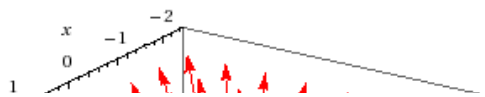
2. 4/4 points | Previous Answers SCalcET7 16.1.015.

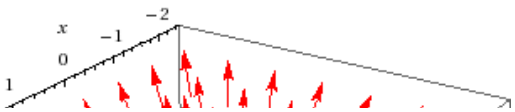
Match the vector field **F** on $\mathbb{R}^3$ with the correct plot.

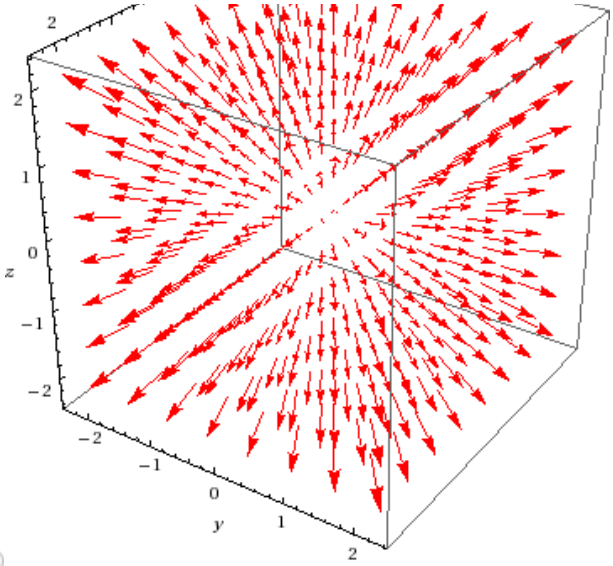
$\mathbf{F}(x, y, z) = \mathbf{i} + 2\mathbf{j} + 3\mathbf{k}$

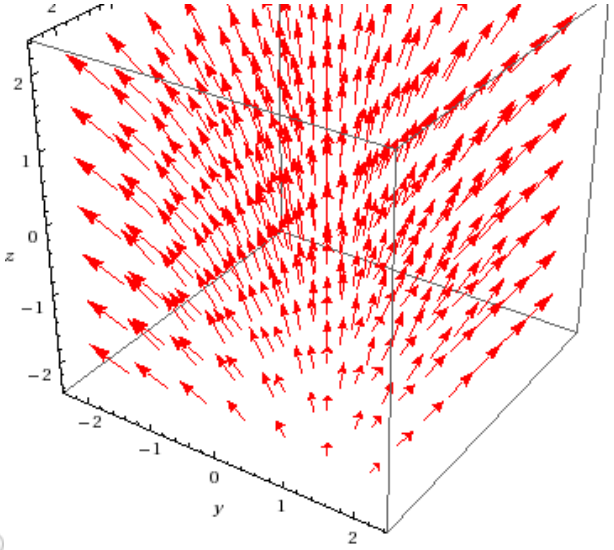












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3. 4/4 points | Previous Answers SCalcET7 16.1.021.MI.

Find the gradient vector field of f.

$f(x, y) = xe^{3xy}$

$\nabla f(x, y) =$

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4. 4/4 points | Previous Answers SCalcET7 16.1.023.

Find the gradient vector field of f.

$f(x, y, z) = 9\sqrt{x^2 + y^2 + z^2}$

$\nabla f(x, y, z) =$

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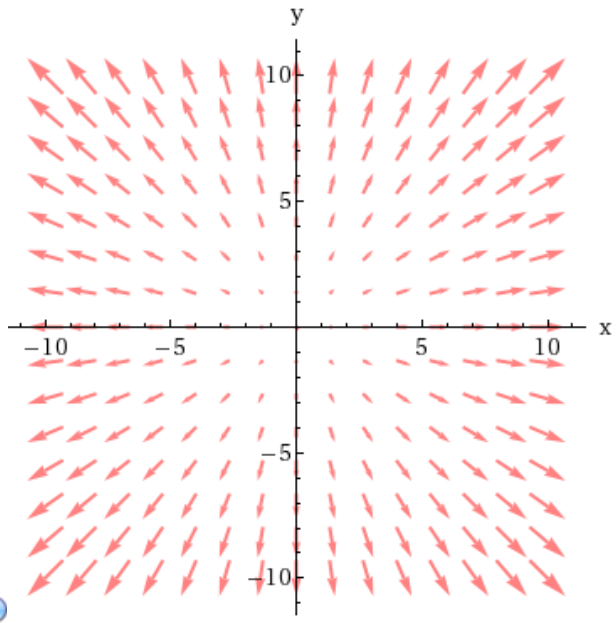
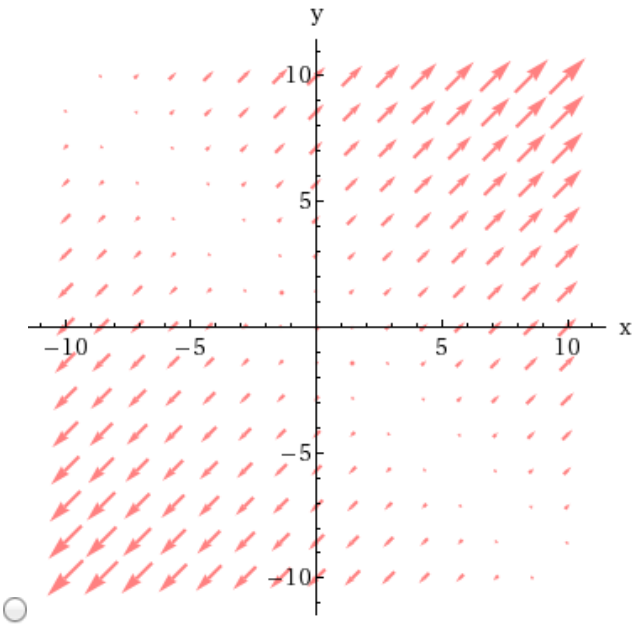
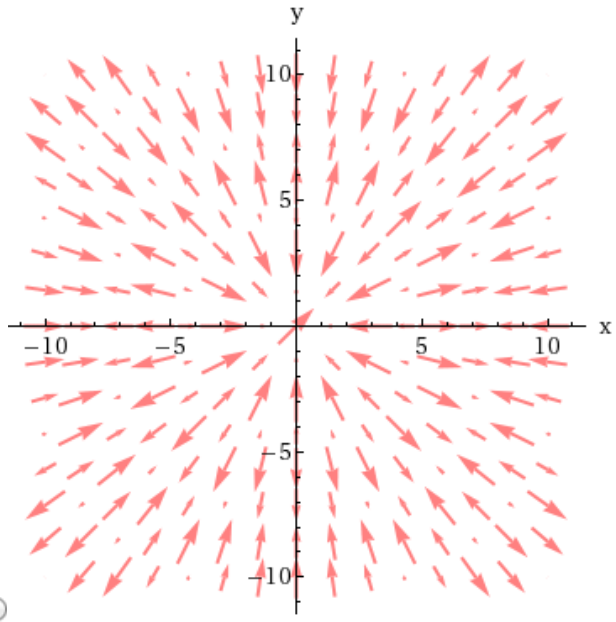
5. 4/4 points | Previous Answers SCalcET7 16.1.029.

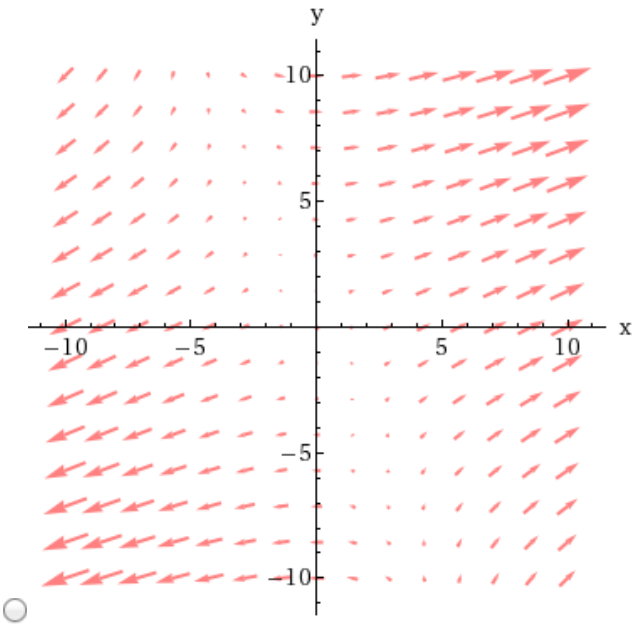
Match the function f with the correct gradient vector field plot.

$f(x, y) = 5x^2 + 5y^2$









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