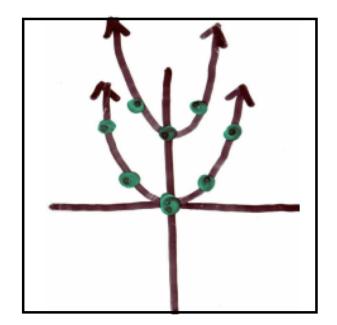
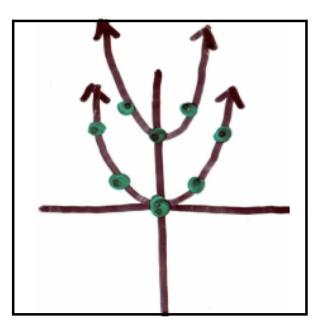
What information does a slope field provide about the solution of a differential equation?

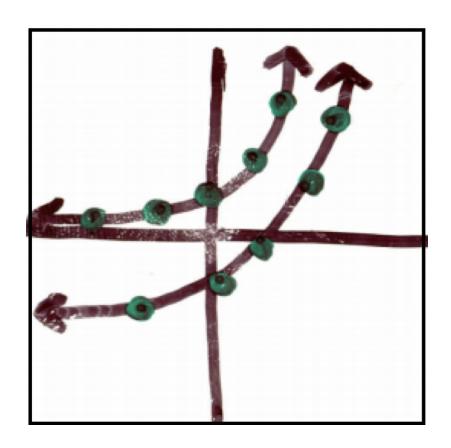
Quick Check

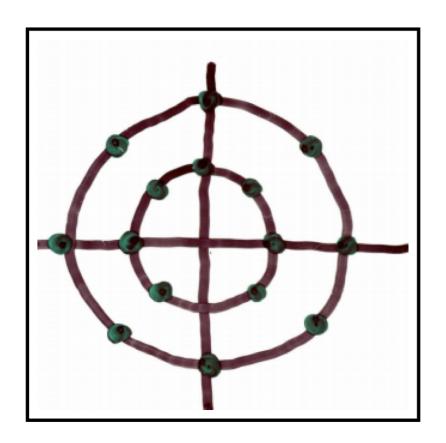
Draw tangent lines at the indicated points on the following graphs.





Continue drawing tangents.



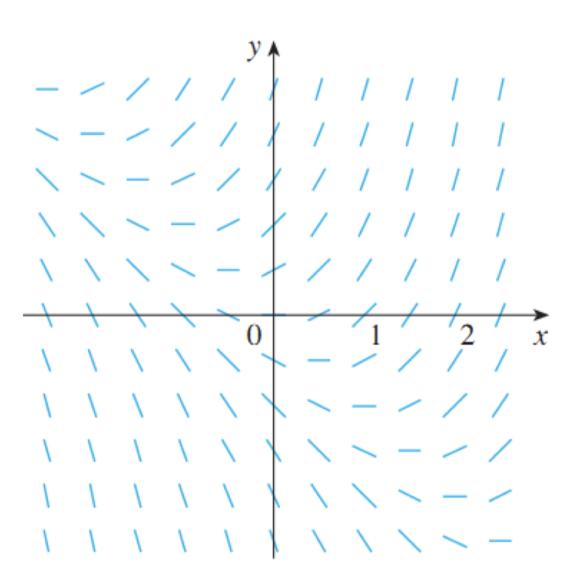


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Slope Field

These line segments indicate the direction in which a solution curve is heading. Slope field, also knows as direction field, helps us visualize the general shape of solution curves.

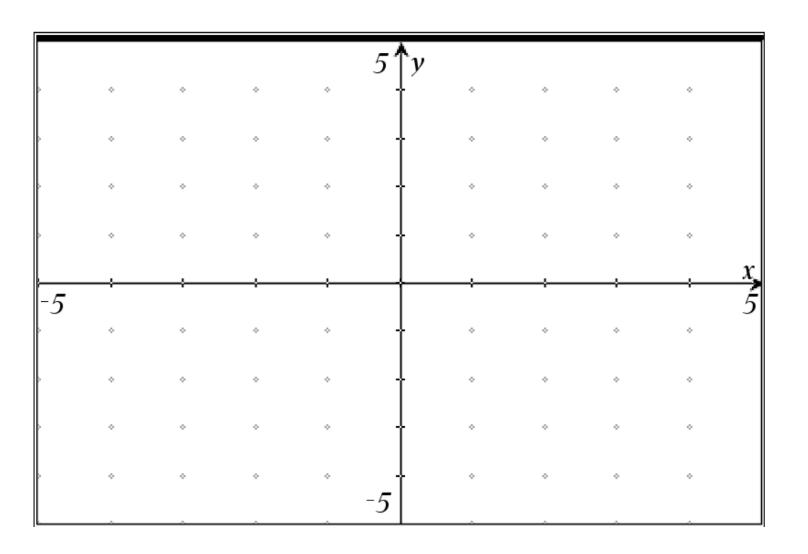
Use desmos to view the slope field for <math>y' = x + y



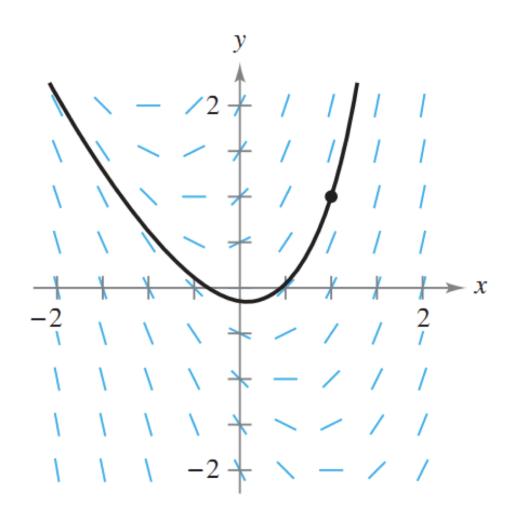
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Sketching a Slope Field

Sketch a slope field for the differential equation y'=x-y for the points (-1,1), (0,1), and (1,1).



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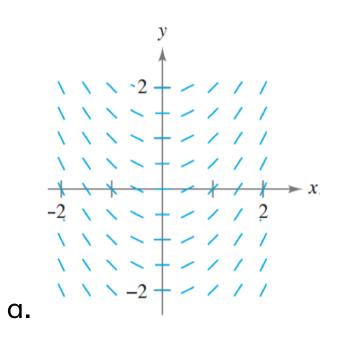


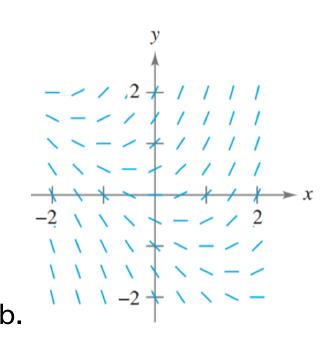
Sketching a Particular Solution

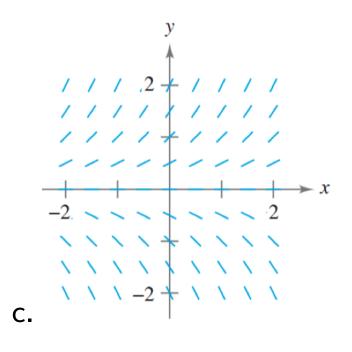
Particular solution for y'=2x+y passing through (1,1).

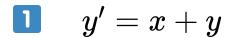
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Match each slope field with its differential equation









$$y'=x$$

$$y'=y$$