# Assignment 1: Collinear points* 

csci 3250 Computational Geometry

Describe an algorithm to determine if a set of points in the plane contains a collinear triplet. As usual, we denote the size of the input (in this case the number of points) by $n$. Your algorithm has to run in $O\left(n^{2} \lg n\right)$ time and $O(n)$ space.

For full credit your solution has to be clear, neat, concise, and contain at least an attempt to justify why it is correct.

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[^0]:    *You are encouraged to work and discuss with a partner, however write your solution individually.

