

Problem 3: Angle Between Two Lines

Let L_1 and L_2 be two non-vertical lines with slopes m_1 and m_2 respectively. Let θ be the angle between them. Find $\cot(\theta)$ in terms of m_1 and m_2 .

As always, show your work, fully explain and justify your answer. A solution mainly obtained by computers or calculators will not be accepted.

Posting Date 2/13/2021. Submit solutions to Noah Aydin, Mathematics Department, RBH 319 by e-mail or hard-copy by noon on February 20, 2021. An email submission must be a single pdf file. Hard copy submissions must be dropped in the file holder at my office door (Hayes 319) and must include a time stamp.