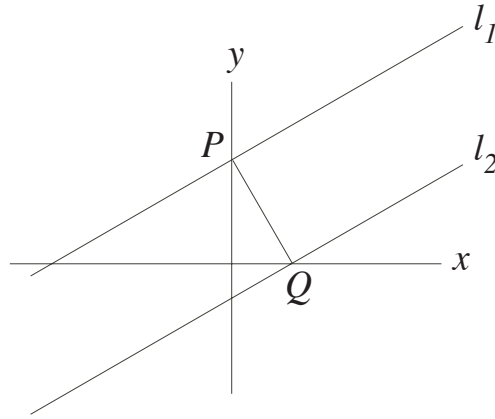




Problem of the Week Grade 9 and 10

Slippery Slopes



Line l_1 has equation $y = mx + k$. Line l_1 crosses the y -axis at point P and l_2 crosses the x -axis at point Q . PQ is perpendicular to both line l_1 and line l_2 .

Determine the y -intercept of l_2 in terms of m and k .

If you are finding this general problem difficult to start, consider first solving a problem with a specific example for l_1 like $y = 4x + 3$ and then attempt the more general problem.

