

Module 6 Lesson 3

Try This 2 Possible Solutions

TT 2. The student may point out that there is a problem with vertical and horizontal lines that are perpendicular. Because of the undefined slope for a vertical line, there is no product of slopes so that product cannot be -1 . The student's steps may be similar to this:

- Choose a point, A , with integral coefficients on coordinate grid.
- Pick a second point, B , with integral coefficients, and draw the line through this point.
- Draw a line through A that is perpendicular to AB .
- Find a point, C , on the perpendicular to AB that has integral coefficients.
- Find the slope, S_1 , of line AB .
- Find the slope, S_2 , of line AC .
- Multiply S_1 and S_2 .
- Decide if the product is -1 .