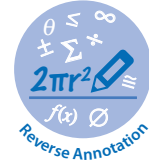


Name: _____

Date: _____

Problem-Based Task: Pave the Way

The civil engineers are busy again. This time they are expanding one of the well-traveled roads in your town. The center of the road is represented by the equation $y = \frac{3}{5}x + 5$. The law says a two-lane road must be at least 24 feet wide. Engineers have mapped out the edges of the road and have one edge running through the point (16, 1) and the other edge running through the point (4, 21), which is directly across the street from the first point. What are the equations of the lines that represent the edges of the road? Will this satisfy the minimum width required by law?



SMP	
1 ✓	2 ✓
3 ✓	4
5	6
7	8

