Name: _____

Chapter 1 – *Section 1.4 Formulas for Linear Functions Part 2*

TICKET-IN-THE-DOOR

In order to be prepared for class you must watch the module and complete the following activity. This is due first thing when you get to class.

- Two lines are parallel if and only if their slopes are _____.

- Two lines are perpendicular if and only if their slopes are _____.

Check your understanding:

1. Find the **equation** of the vertical line that passes through the point (4, –9).

2. Find the **equation** of the horizontal line that passes through the point (3, 5).

3. Write the **equation of the line** perpendicular to $y = 4 - \frac{3}{4}x$ and goes through the point (–3, –5) in:

   a. *Point-Slope* Form

   b. *Slope-Intercept* Form

   c. **Graph** both lines on the same axes.