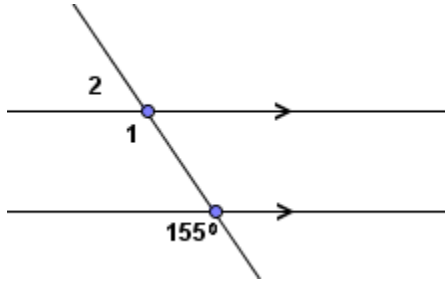Name: _____ Date: _____ Period: _____

Geometry
Exit Slip – Parallel Lines and Transversals
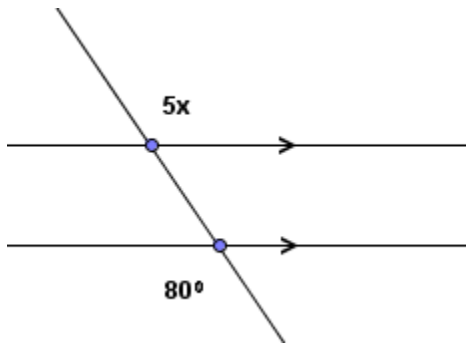
1. **Find the measure of < 1 and < 2. Give a reason for you answer.**

$m < 1 =$ _____ because _____

_____

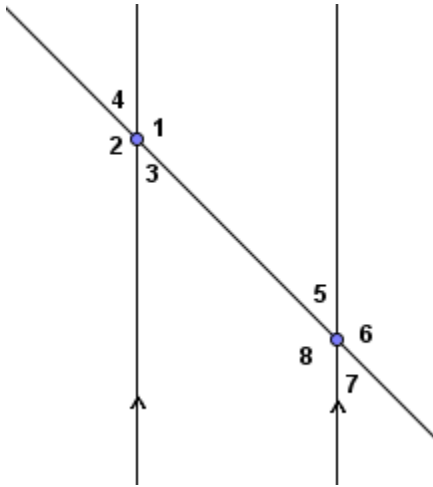$m < 2 =$ _____ because _____

_____

2. **Find the value of x. Show your work or give a reason for your answer.**

x = _____ because _____

_____

3. **Donovan was given the following problem and his argument is listed below. However, after handing it in, Donovan did not receive full credit. His argument is below. Explain what Donovan should change to receive full credit.**

Problem: Given the diagram and $m < 4 = 45°$, find $m < 8$ and construct a viable argument that justifies your answer.

Donovan's Argument:

- $m < 4 = 45°$ because it is given.
- $m < 4 + m < 1 = 180°$ because it forms a straight angle.
- $m < 1 = 135°$ because $180° - 45° = 135°$
- $m < 1 = m < 8$ because alternate interior angles are congruent.
- $m < 8 = 45°$ because < 1 and < 8 have the same measure.

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