Warm Up Find the complement of each angle measure.

1. 30° 60° **2.** 42° 48°

Find the supplement of each angle measure.

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3. 150° **30**° **4.** 82° **98**°

Line and Angle Relationships MODULE 11

Essential?

How can you use angles to identify lines, and find missing measures of angles?

Standard

MCC7.G.5: Use facts about supplementary, complementary, vertical, and adjacent angels in multi-step problem to write and solve simple equations for an unknown angle in a figure.

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When lines, segments, or rays intersect, they form angles. If the angles formed by two intersecting lines measure 90°, the lines are **perpendicular lines**.

Some lines in the same plane do not intersect at all. These lines are **parallel <u>lines</u>**. Segments and rays that are part of parallel lines are also parallel.

Skew lines do not intersect, and yet they are also not parallel. They lie in different planes.

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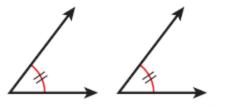
Reading Math

Angles with the same number of tick marks are congruent. The tick marks are placed in the arcs drawn inside the angles.

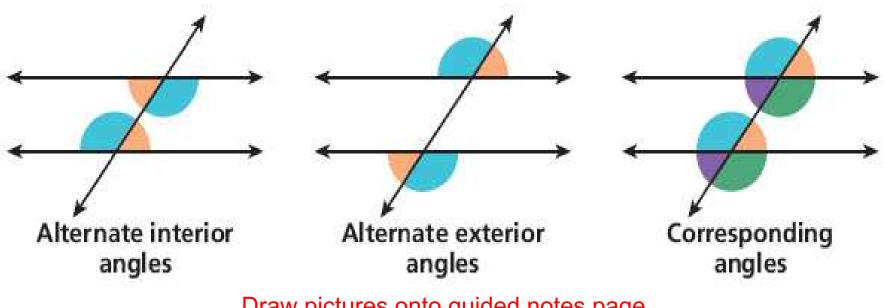
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A **transversal** is a line that intersects two or more lines. Transversals to parallel lines form special angle pairs.



Draw pictures onto guided notes page

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Line and Angle Relationships

Copy into guided notes for each angle.

PROPERTIES OF TRANSVERSALS TO PARALLEL LINES

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If two parallel lines are intersected by a transversal,

- corresponding angles are congruent,
- alternate interior angles are congruent,
- and alternate exterior angles are congruent.

Angle relationship video

Check It Out: Example 2B

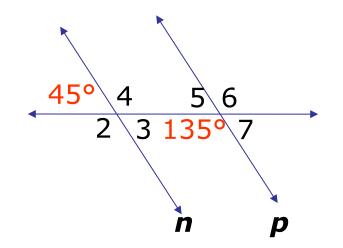
Line *n* ||line *p*. Find the measure of the angles.

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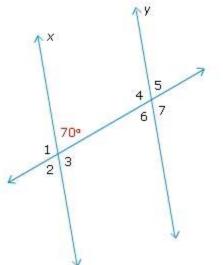
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Line and Angle Relationships

Lesson Quiz for Student Response Systems

4. In the figure, line *x* || line *y*. Identify the measures



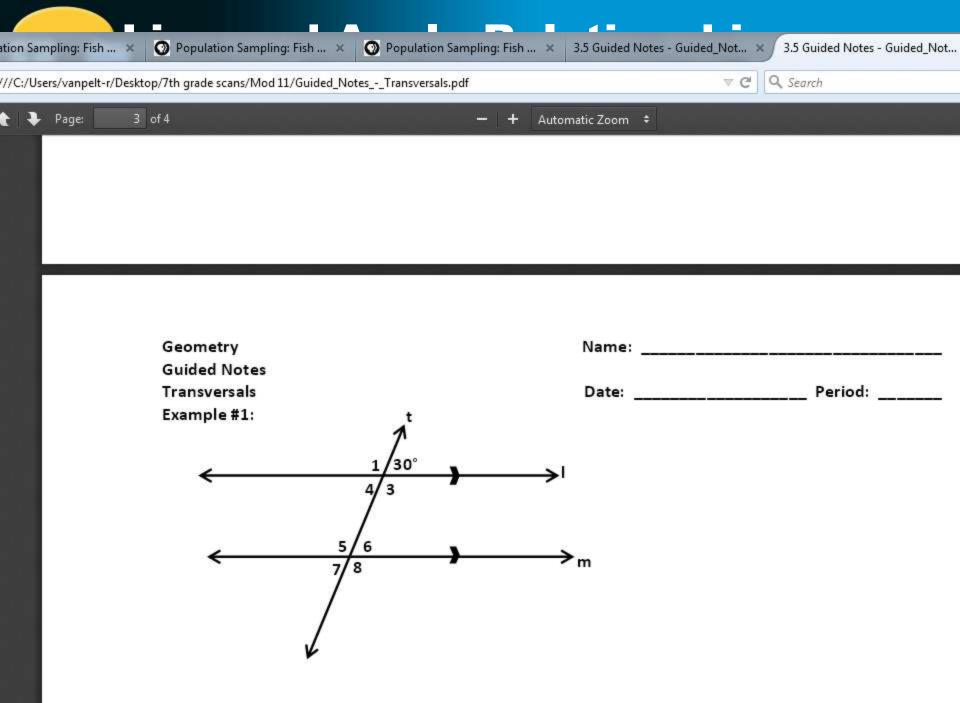
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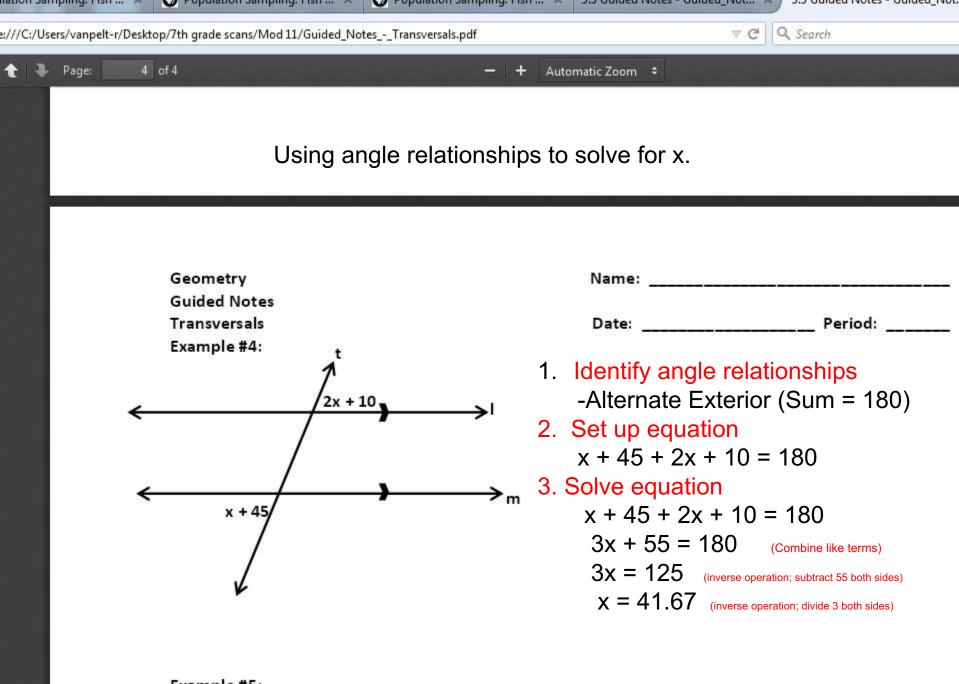
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Main n

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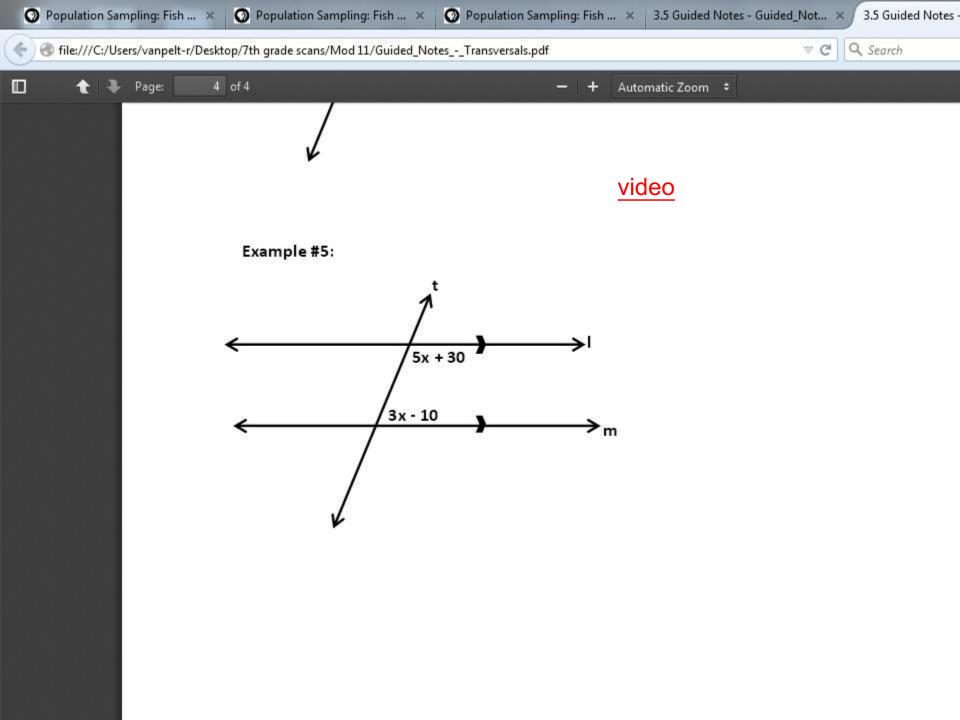


Example #2:



Example #5:

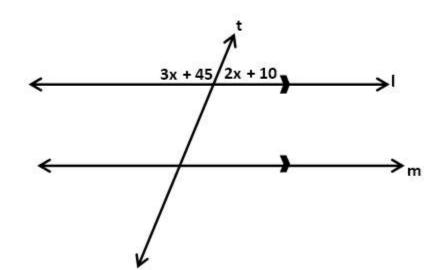
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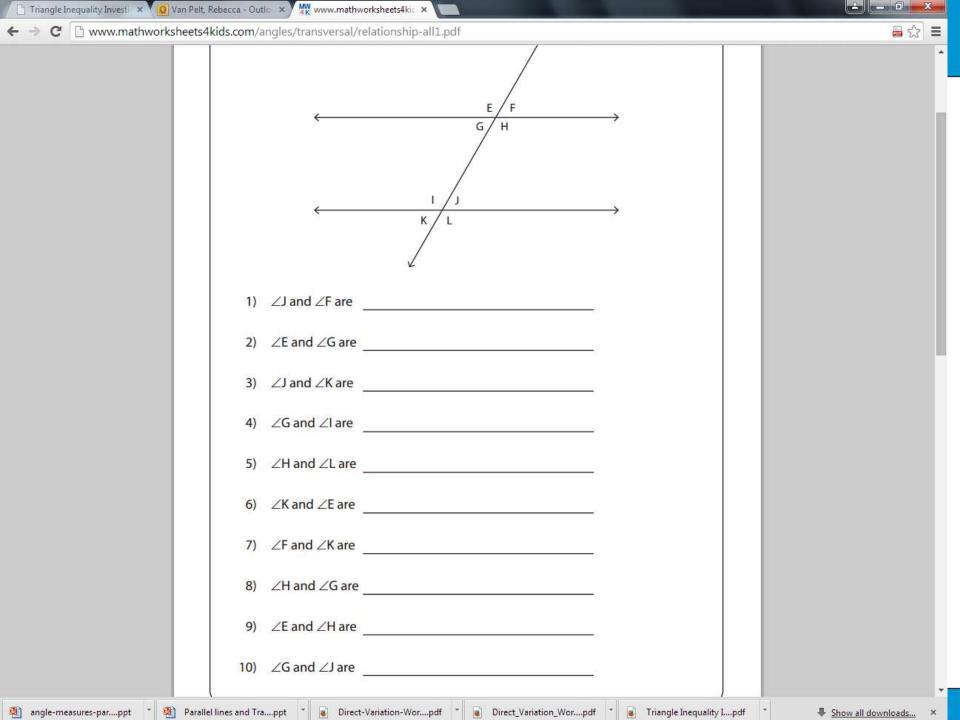
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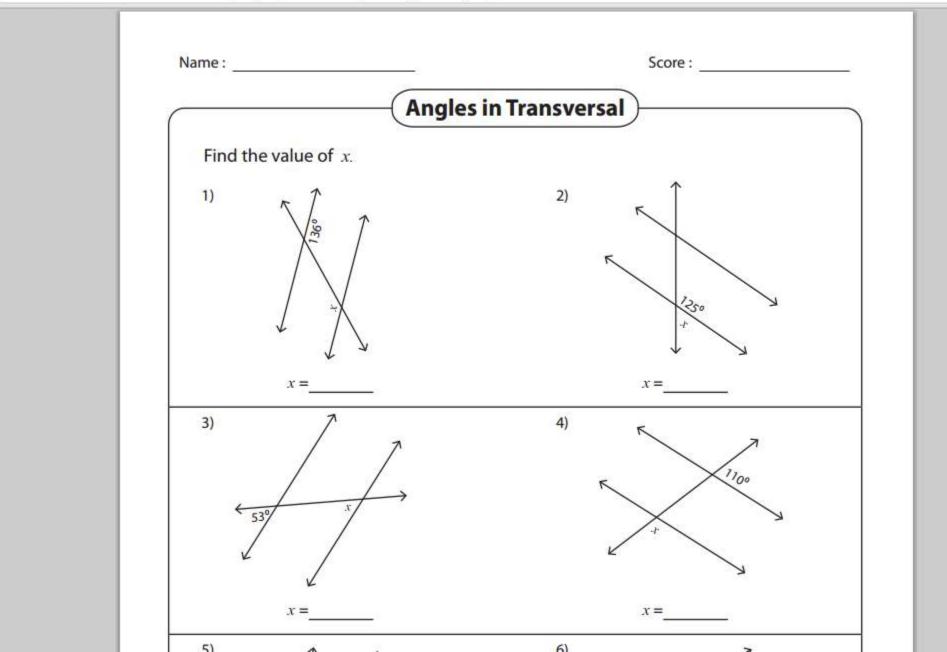
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