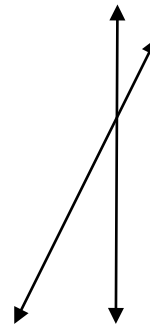
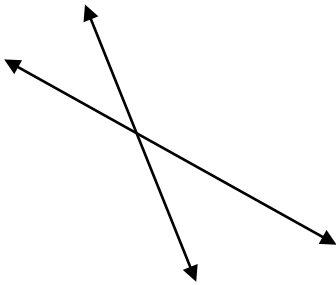
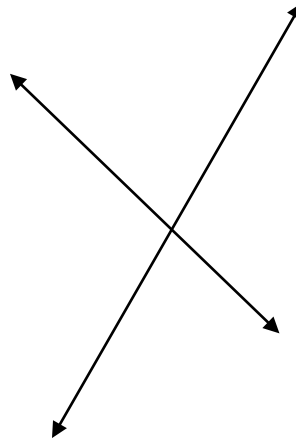
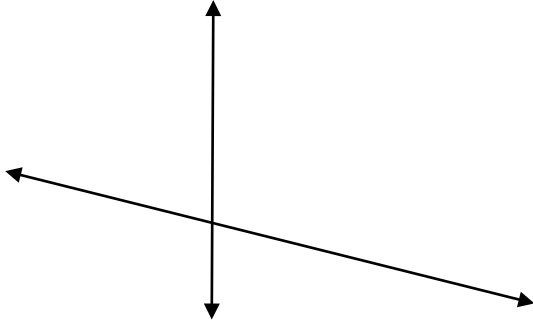


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Section 1 – All my x's live in Texas...

For each of the sets of intersecting lines, use a protractor find the measures of all of the angles that have a vertex at the intersection point.

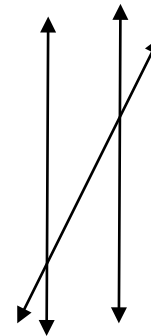
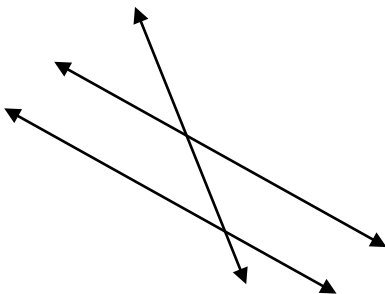
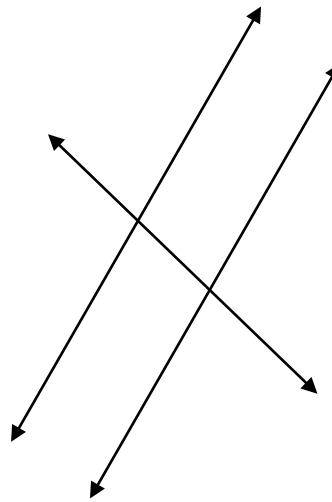
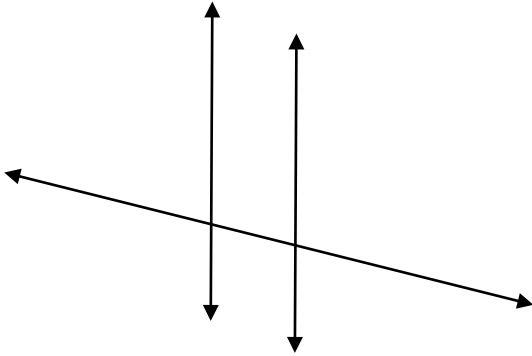


Let's use some **INDUCTIVE REASONING**. That is, we are going to look at some examples and try to find a pattern.

In the four examples you see right now, do you see any patterns? Did you notice anything that all four situations had in common?

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This time we'll add a third line to each of the situations. Assume that any lines that look parallel are parallel. Once again, using a protractor measure all of the different angles. You should have 8 angles for each situation.

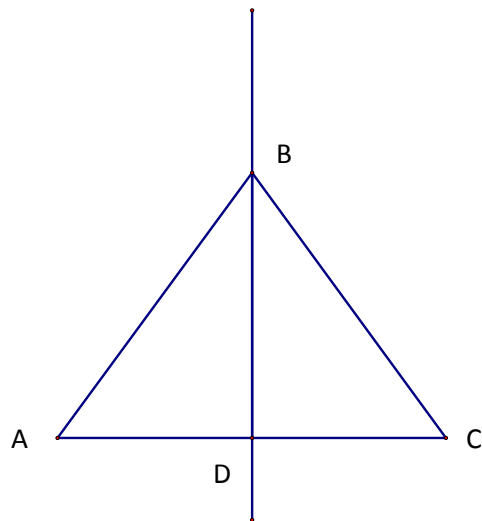
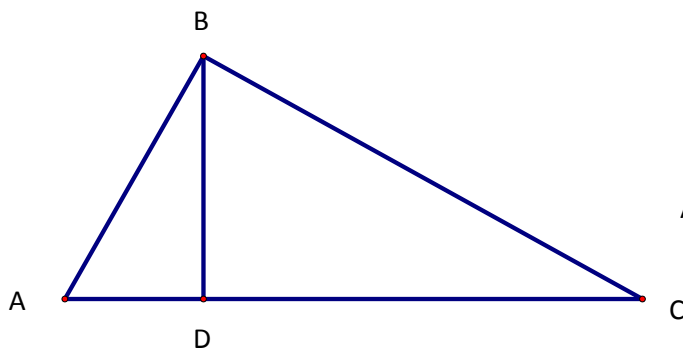
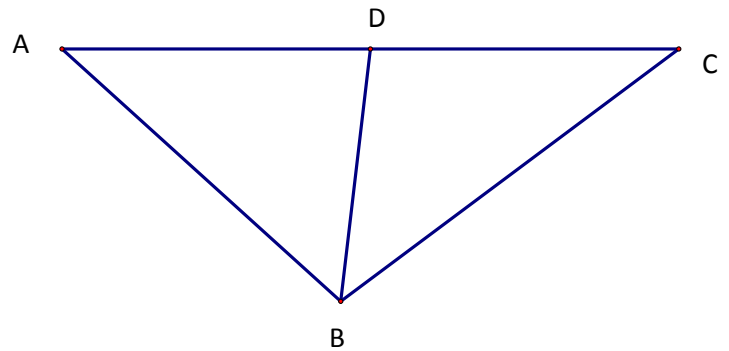
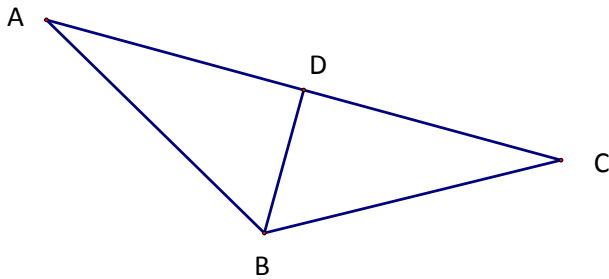
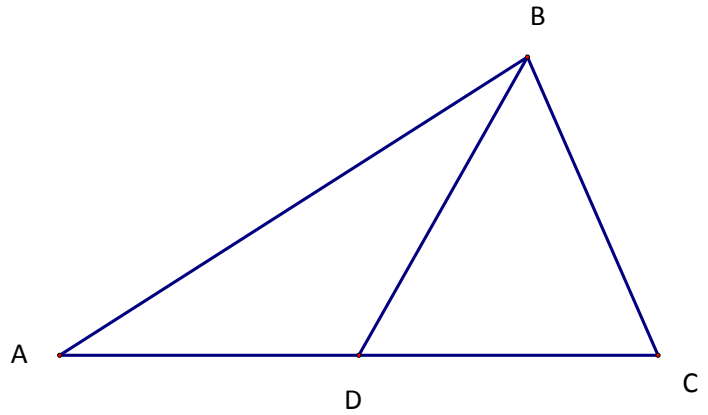
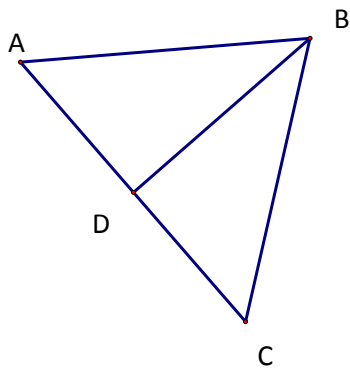


How about a little more inductive reasoning?

In the four examples you see right now, do you see any patterns? Did you notice anything that all four situations had in common?

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This time we'll look at six situations. Your job is to find AB, BC, AD and DC. Also, measures of angles ADB and BCD... for each triangle.



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More inductive reasoning...

What patterns did you notice from looking at the previous six situations?