

5-7

Practice

Form K

Inequalities in Two Triangles

Write an inequality relating the given side lengths. If there is not enough information to reach a conclusion, write *no conclusion*.

1. AB and CB $AB < CB$

To start, determine whether the triangles have two pairs of congruent sides.

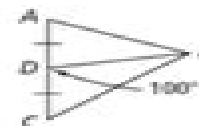
$$\overline{AD} = \overline{CD}$$

$$\overline{DB} = \overline{DB}$$

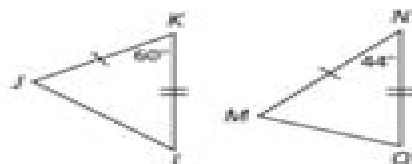
Then compare the hinge angles.

$$m\angle CDB = 100$$

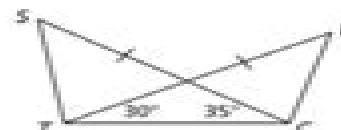
$$m\angle ADB = 80$$



2. JL and MO $JL > MO$

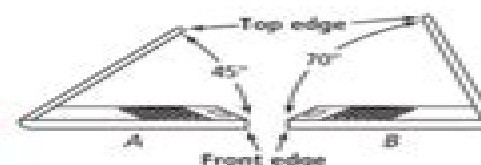


3. ST and BT *no conclusion*

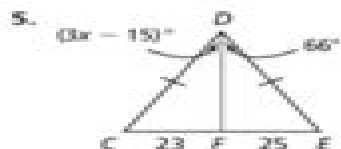


4. Two identical laptops are shown at the right. In which laptop is the distance from the top edge of the screen to the front edge of the keyboard greater? Explain.

Laptop B; the lengths of the laptops' keyboards and screens are the same. Laptop B is open wider, so the hinge angle is greater than it is for Laptop A.



Algebra Find the range of possible values for each variable.

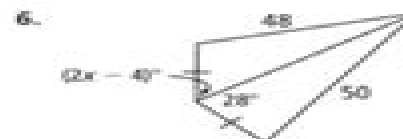


$$m\angle CDF < m\angle EDF$$

$$x < 27$$

$$m\angle CDE > 0$$

$$x > 5$$



$$2 < x < 16$$

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Nichols



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