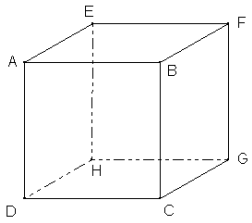
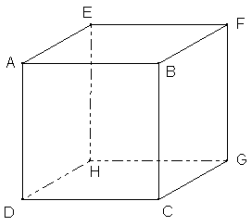
Name: Date: Period:

Unit 3 Review

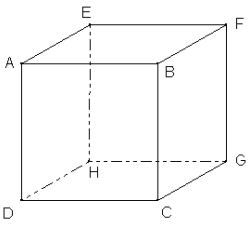
1. Name all the line(s) that are parallel to $\overline{AE}$



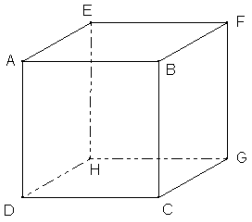
2. Name all the line(s) that are skew to $\overline{AE}$



3. Name all the line(s) that are Perpendicular to $\overline{AE}$



4. Name all the planes(s) that are Parallel to $plane\ AEB$



5. Draw line n that is a perpendicular bisector of $\overline{CD}$

6. Draw line t that is a transversal that goes through line m and n, but the corresponding angles are NOT Equal.

7. Draw line t that is a transversal that goes through line m and n, and the alternate-interior angles ARE equal.

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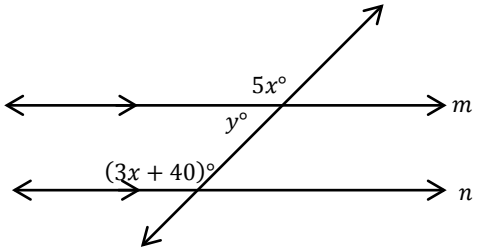
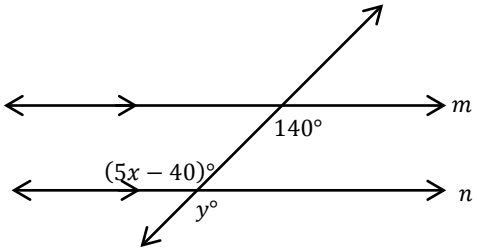
If $m \parallel n$, find the value of x and y. State which theorem(s) you used

6.

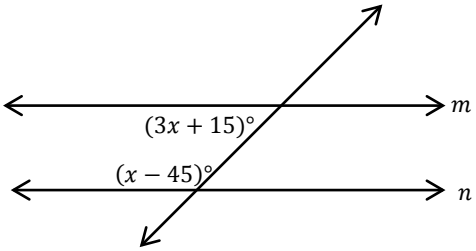


7.

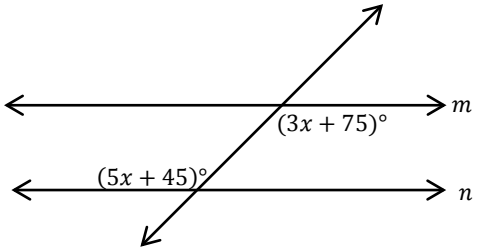


Find the value of x that makes the lines parallel. State the theorem that you used.

8.

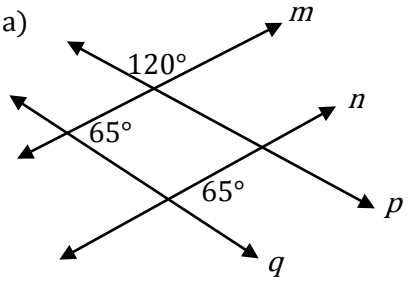


9.

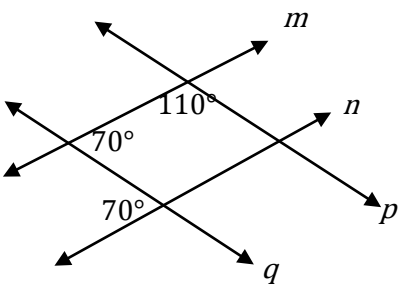


10. State which lines MUST be parallel (if any) and give a reason for this (remember to use the CONVERSE theorems).

a)



b)



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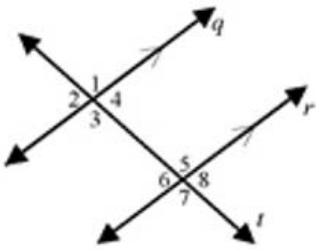
11. Given : $p \parallel r$

Prove: $m\angle 3 = m\angle 5$
(without using the Alternate Interior Angle Theorem)



12. Given : $q \parallel r$

Prove: $m\angle 1 = m\angle 7$
(without using the Alternate Exterior Angle Theorem)