

Geometry (G.CO.9)

Unit One B – Proving Lines are Parallel #1 (HW27)

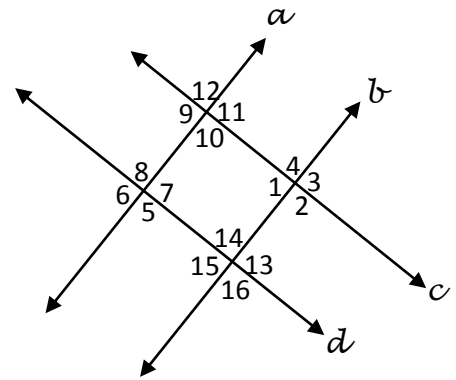
Name: _____

Date: _____ Period: _____

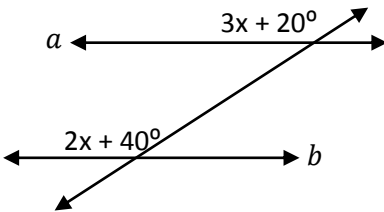
Your Work:

Corrected Work:

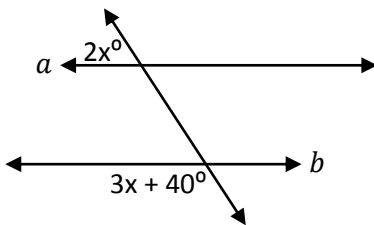
1. Using the diagram to the right, if the given information is provided, state which two lines are parallel, if any.
 - a. $\angle 9$ supp $\angle 8$: _____
 - b. $\angle 9 \cong \angle 1$: _____
 - c. $\angle 2 \cong \angle 14$: _____
 - d. $\angle 2$ supp $\angle 9$: _____
 - e. $\angle 6 \cong \angle 11$: _____
 - f. $\angle 12 \cong \angle 10$: _____
 - g. $\angle 2$ supp $\angle 3$: _____
 - h. $\angle 4 \cong \angle 8$: _____



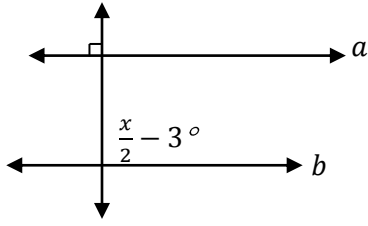
2. What value of x will make *line a* \parallel *line b*?



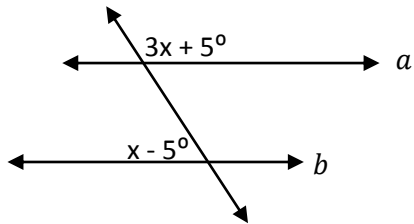
3. What value of x will make *line a* \parallel *line b*?



4. What value of x will make *line a* \parallel *line b* ?



5. If *line a* \nparallel *line b*, then can $x = 50$? Justify your answer.



6. Factor: $x^2 + 6x - 16$

7. Solve: $x^2 + 8x + 12 = 0$