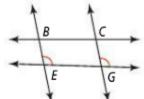
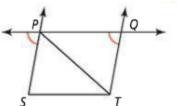
Which lines or segments are parallel? Justify your answer.

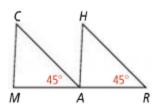
1.



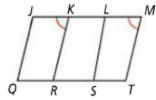
2.



3.



4.



Use the given information to determine which lines, if any, are parallel. Justify each conclusion with a theorem or postulate.

5. $\angle 2$ is supplementary to $\angle 3$

6. ∠1 ≅ ∠3

7. ∠6 is supplementary to ∠7 ______

8. ∠9 ≅ 12 _____

9. *m*∠7 = 65, *m*∠8 = 115 ______

10. ∠2 ≅ ∠10 _____

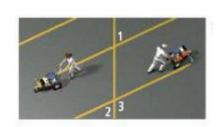
11. ∠1 ≅ ∠8 _____

12. ∠8 ≅ ∠6 _____

13. ∠11 ≅ ∠7 _____

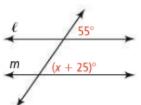
14. ∠5 ≅ ∠10

15. Two workers paint lines for angled parking spaces. One worker paints a line so that $m \angle 1 = 65$. The other worker paints a line so that $m \angle 2 = 65$. Are their lines parallel? Justify.

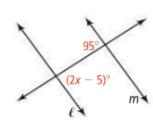


Find the value of x for which $\ell \parallel m$ or the indicated lines will be parallel.

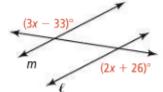
16.



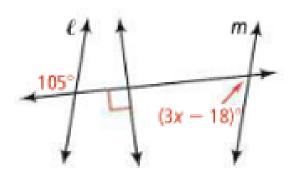
17.



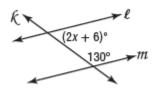
18.



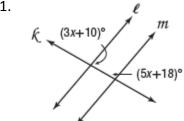
19.



20.

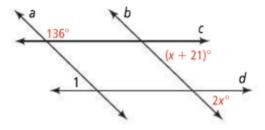


21.



Use the diagram for Exercises 22 and 23.

- 22. For what value of x is $c \parallel d$?
 - (A) 21
- C 43
- B 23
- D 53



- 23. If $c \parallel d$, what is $m \angle 1$?
 - (F) 24
- (H) 136
- G 44
- 1146