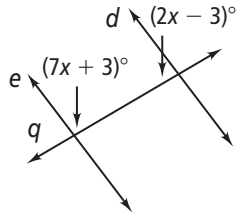
Name _____ Class _____ Date _____

3-3 Standardized Test Prep

Proving Lines Parallel

Multiple Choice

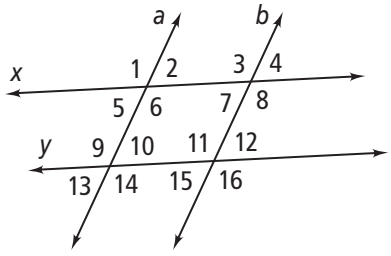
For Exercises 1–6, choose the correct letter.



1. For what value of x is $d \parallel e$?

Ⓐ 20 Ⓑ 25 Ⓒ 35 Ⓓ 37

For Exercises 2 and 3, use the figure below right.



2. Which statement proves that $a \parallel b$?

Ⓕ $\angle 8$ is supplementary to $\angle 12$. Ⓗ $\angle 1 \cong \angle 6$

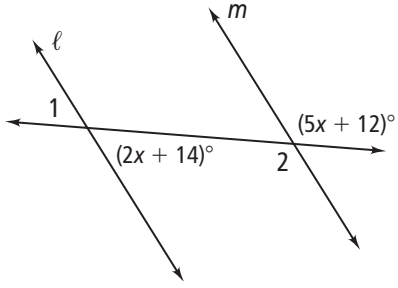
Ⓖ $\angle 10$ is supplementary to $\angle 11$. Ⓘ $\angle 5 \cong \angle 13$

3. Which statement proves that $x \parallel y$?

Ⓐ $\angle 2$ is supplementary to $\angle 3$. Ⓒ $\angle 6 \cong \angle 9$

Ⓑ $\angle 14$ is supplementary to $\angle 15$. Ⓓ $\angle 12 \cong \angle 13$

For Exercises 4–6, use the figure at the right.



4. If $\ell \parallel m$, what is $m\angle 1$?

Ⓕ 22 Ⓖ 58 Ⓗ 122 Ⓘ 130

5. For what value of x is $\ell \parallel m$?

Ⓐ 22 Ⓑ 54 Ⓒ 58 Ⓓ 122

6. If $\ell \parallel m$, what is $m\angle 2$?

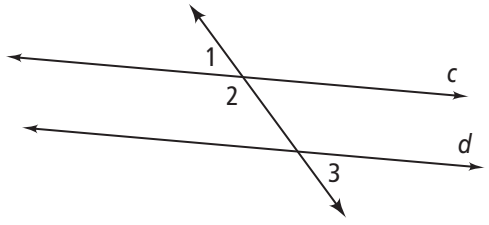
Ⓕ 22 Ⓖ 58 Ⓗ 122 Ⓘ 130

Short Response

7. Write a flow proof.

Given: $\angle 2$ and $\angle 3$ are supplementary.

Prove: $c \parallel d$



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