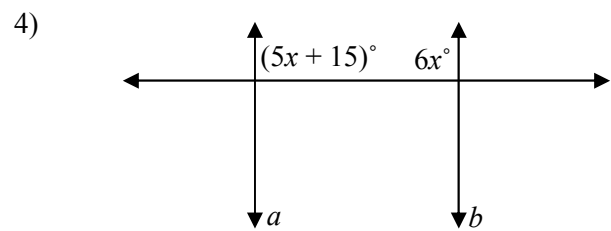
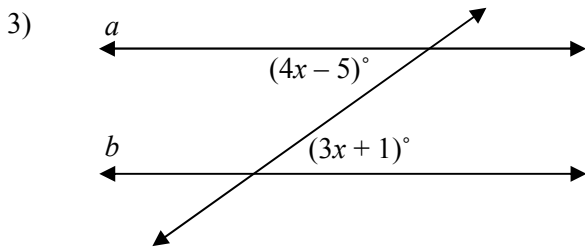
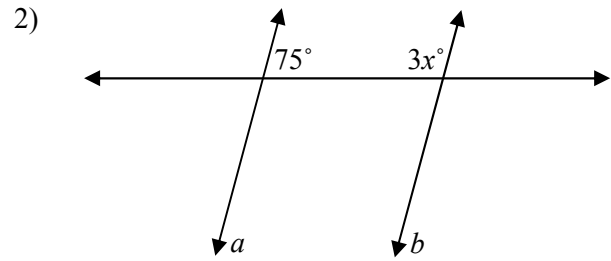
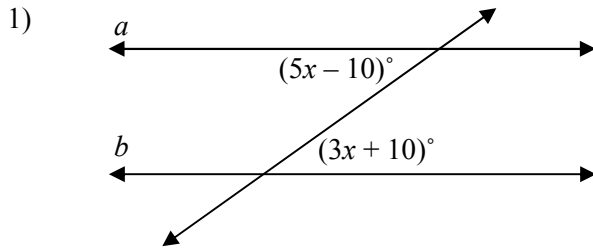
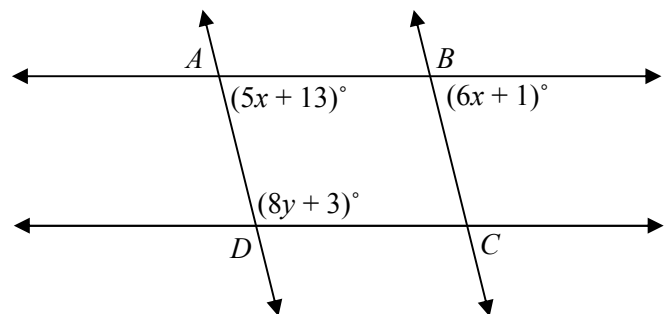


Find the value of x that makes $a \parallel b$.

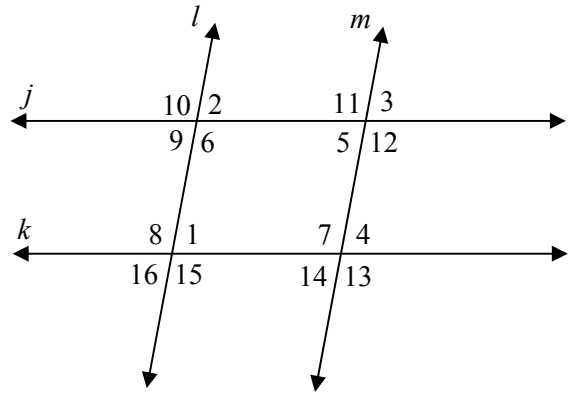


5) Find the values of x and y that makes $\overline{AB} \parallel \overline{CD}$ and $\overline{AD} \parallel \overline{BC}$.

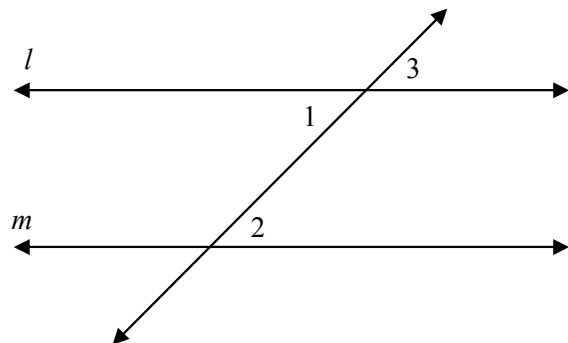


Complete a two-column proof.

- 6) Given: $j \parallel k$; $\angle 1 \cong \angle 3$
Prove: $l \parallel m$



- 7) Given: $\angle 1 \cong \angle 2$
Prove: $l \parallel m$



Answer Key

- 1) 10
- 2) 35
- 3) 6
- 4) 15
- 5) $x = 12, y = 13$

$j \parallel k; \angle 1 \cong \angle 3$ given

- 6) $\angle 2 \cong \angle 1$ If 2 lines are cut by transversal, then corr. angles are congruent
- $\angle 2 \cong \angle 3$ Transitive Property

Prove: $l \parallel m$ If 2 lines are cut by a transversal and corr. angles are \cong , then lines are parallel

$\angle 1 \cong \angle 2$ given

- 7) $\angle 1 \cong \angle 3$ vertical angles are congruent
- $\angle 2 \cong \angle 3$ transitive property of congruence

$l \parallel m$ if corresponding angles are congruent, then lines are parallel