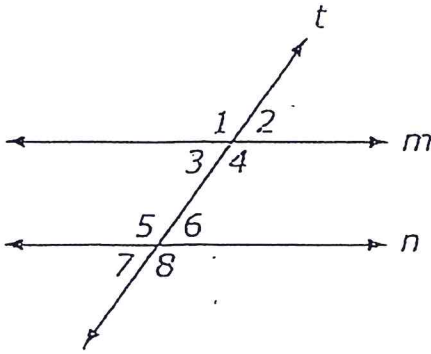


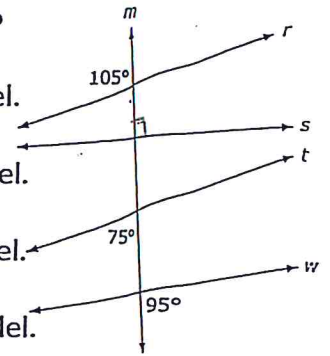
Use the figure below to answer numbers 4 – 6.



4. Transversal t cuts parallel lines m and n . Which angle is congruent to $\angle 1$?
- (a) $\angle 2$
- (b) $\angle 3$
- (c) $\angle 7$
- (d) $\angle 8$
5. Transversal t cuts parallel lines m and n . If the $m\angle 4 = 110^\circ$, what is the $m\angle 7$?
- (a) 20°
- (b) 55°
- (c) 70°
- (d) 110°
6. Which statement must be true about $\angle 3$ and $\angle 6$ in order for line m and n to be parallel?
- (a) Their measures must be equal.
- (b) Their measures must be supplementary.
- (c) Their measure must be complementary.
- (d) The measure of $\angle 3$ must be greater than the measure of $\angle 2$.
10. Given that $l \parallel m$ and $\angle 4 \cong \angle 10$, are lines n and p parallel? Justify and explain.

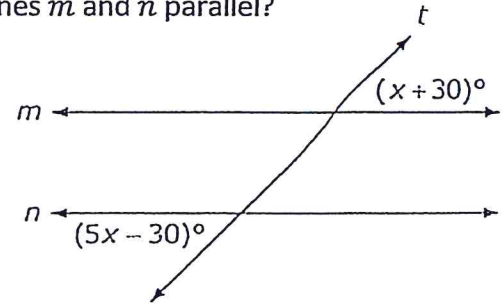
7. Line m intersects lines $r, s, t,$ and w . Which statement must be true?

- (a) Lines r and s are parallel.
- (b) Lines r and t are parallel.
- (c) Lines r and w are parallel.
- (d) Lines s and w are parallel.



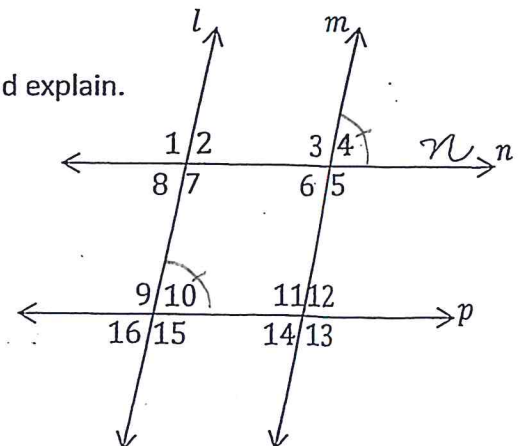
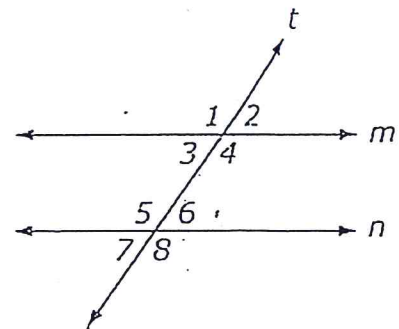
8. Line t intersects lines m and n . For what value of x are lines m and n parallel?

- (a) 12
- (b) 15
- (c) 30
- (d) 45



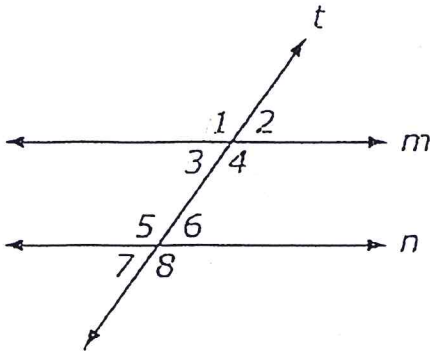
9. Line t intersects line m and n . Which angle has to be supplementary to $\angle 6$ for lines m and n to be parallel?

- (a) $\angle 2$
- (b) $\angle 4$
- (c) $\angle 7$
- (d) $\angle 8$



Key

Use the figure below to answer numbers 4 – 6.



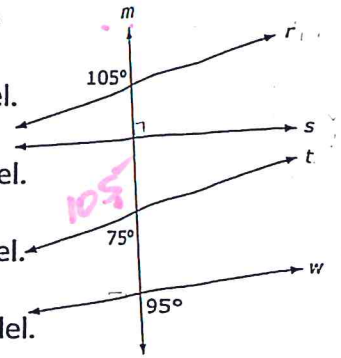
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 - (a) 20°
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6. Which statement must be true about $\angle 3$ and $\angle 6$ in order for line m and n to be parallel?
 - (a) Their measures must be equal.
 - (b) Their measures must be supplementary.
 - (c) Their measure must be complementary.
 - (d) The measure of $\angle 3$ must be greater than the measure of $\angle 2$.

10. Given that $l \parallel m$ and $\angle 4 \cong \angle 10$, are lines n and p parallel? Justify and explain.

$\angle 4 \cong \angle 2$ (CA because $l \parallel m$). Since $\angle 4 \cong \angle 10$, then $\angle 2 \cong \angle 10$. $\angle 2$ & $\angle 10$ are CA, \cong , so $n \parallel p$.

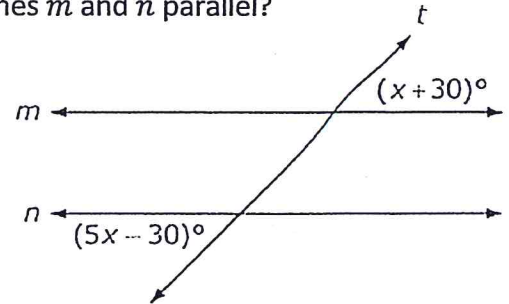
7. Line m intersects lines $r, s, t,$ and w . Which statement must be true?

- (a) Lines r and s are parallel.
- (b) Lines r and t are parallel.
- (c) Lines r and w are parallel.
- (d) Lines s and w are parallel.



8. Line t intersects lines m and n . For what value of x are lines m and n parallel?

- (a) 12
- (b) 15
- (c) 30
- (d) 45



9. Line t intersects line m and n . Which angle has to be supplementary to $\angle 6$ for lines m and n to be parallel?

- (a) $\angle 2$
- (b) $\angle 4$
- (c) $\angle 7$
- (d) $\angle 8$

