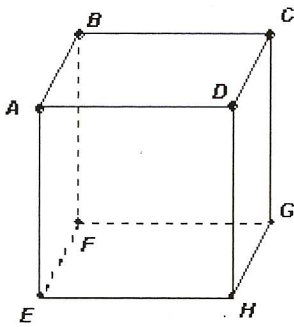
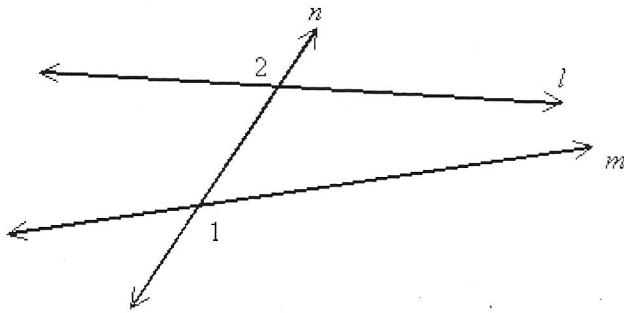


Chapter 3 Practice Test

Use the figure below.

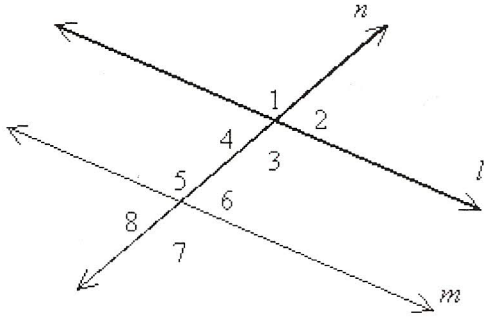


- _____ 1. For the cube shown, \overleftrightarrow{AD} and \overleftrightarrow{HG} are _____.
- | | |
|-------------------|------------------------|
| a. parallel lines | c. skew lines |
| b. oblique lines | d. perpendicular lines |
- _____ 2. In the figure, $\angle 1$ and $\angle 2$ are _____.



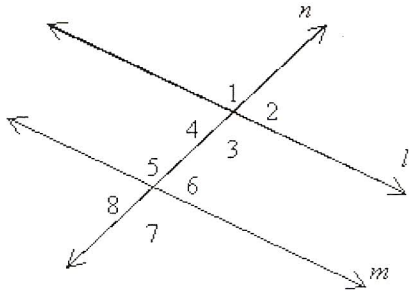
- | | |
|------------------------------|--------------------------------|
| a. alternate exterior angles | c. consecutive interior angles |
| b. alternate interior angles | d. corresponding angles |

3. In the figure, $\angle 6$ and $\angle 3$ are _____.



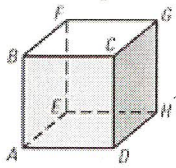
- a. alternate exterior angles
- b. consecutive interior angles
- c. corresponding angles
- d. alternate interior angles

4. In the figure, $\angle 6$ and $\angle 2$ are _____.



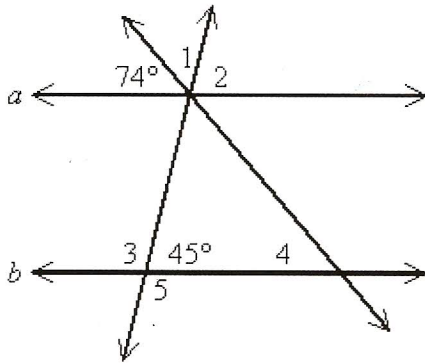
- a. alternate interior angles
- b. consecutive interior angles
- c. alternate exterior angles
- d. corresponding angles

5. Name 4 pairs of perpendicular lines in the figure.



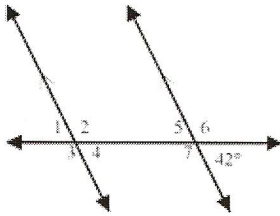
6. **GRIDDED RESPONSE** Grid the correct answer on a separate gridding sheet.

Lines a and b in the figure below are parallel.

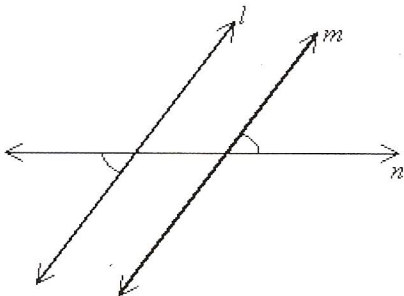


What is the measure of $\angle 1$, in degrees?

7. Use the figure to find the measure of $\angle 4$.

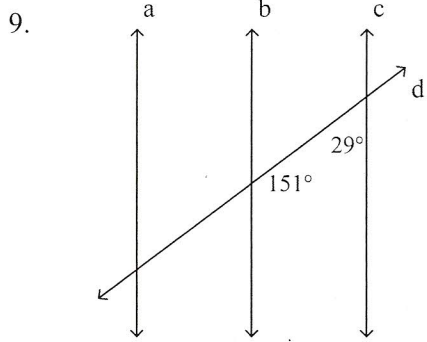


8. Refer to the figure. Which theorem guarantees l and m are parallel?

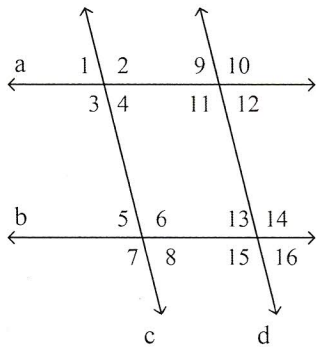


- Alternate Interior Angles Converse
- Consecutive Interior Angles Converse
- Corresponding Angles Converse
- Alternate Exterior Angles Converse

Which lines, if any, can be proved parallel given the following diagram? For each conclusion, provide the justification.

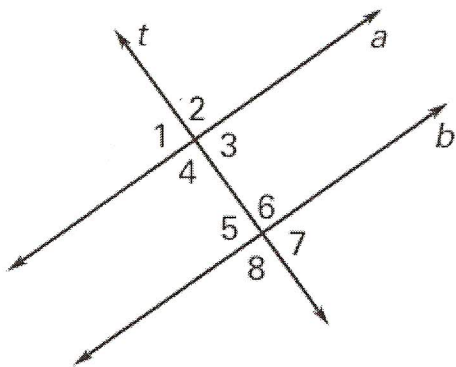


10. Which lines, if any, must be parallel based on the given diagram and information. Give the justification for each conclusion. Given: $\angle 4 \cong \angle 12$

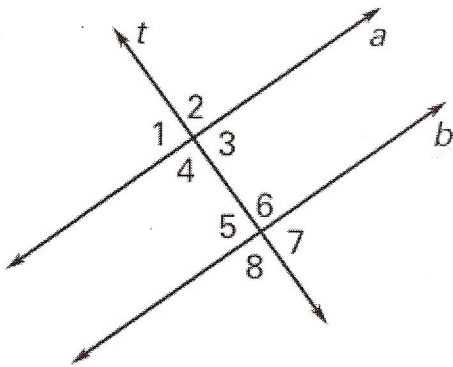


Use the given angle measures to decide whether lines a and b are parallel. Write Yes or No.

11. $m\angle 3 = 96^\circ$, $m\angle 5 = 84^\circ$



12. $m\angle 5 = 79^\circ$, $m\angle 4 = 79^\circ$



_____ 13. Find the slope of the line passing through the points $A(6, -5)$ and $B(-5, -7)$.

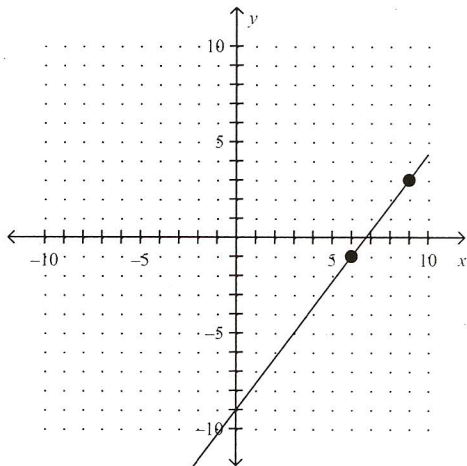
a. $-\frac{1}{12}$

c. -12

b. $\frac{11}{2}$

d. $\frac{2}{11}$

_____ 14. Find the slope of the line.



a. $\frac{2}{15}$

c. $\frac{3}{4}$

b. $\frac{15}{2}$

d. $\frac{4}{3}$

15. Line l passes through $(1, 1)$ and $(-2, -8)$. Graph the line perpendicular to l that passes through $(-2, 2)$.

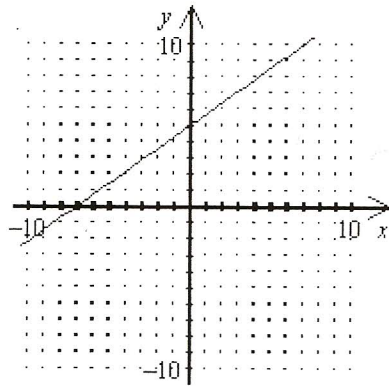
16. Line l passes through the points $(-3, 1)$ and $(2, 5)$. If $j \parallel l$ and $k \perp j$, what is the slope of k ? Explain your reasoning.

Name: _____

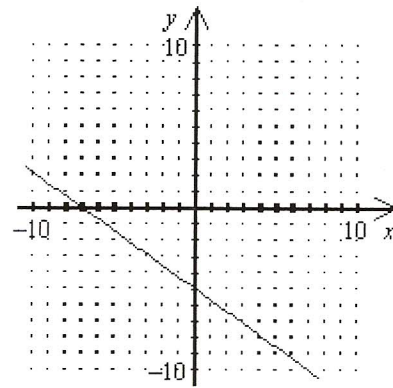
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21. Graph the equation $5x - 7y = -35$.

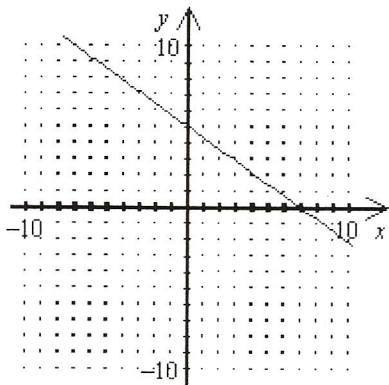
a.



c.



b.



d.

