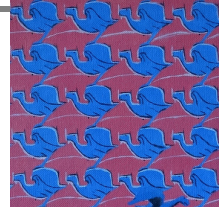


Ready, Set, Go!

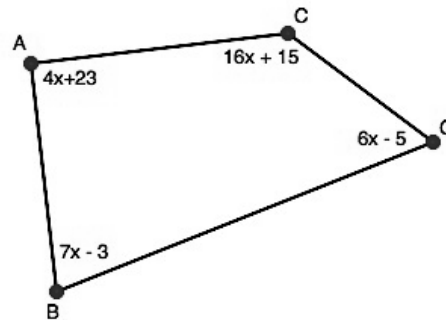


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Ready

Topic: Properties of quadrilaterals.

1. Use what you know about triangles to write a paragraph proof that proves that the sum of the angles in a quadrilateral is 360° .



2. Find the measure of x in quadrilateral $ABGC$.

Match the equation with the correct line in the graph of lines p , q , r , and s .

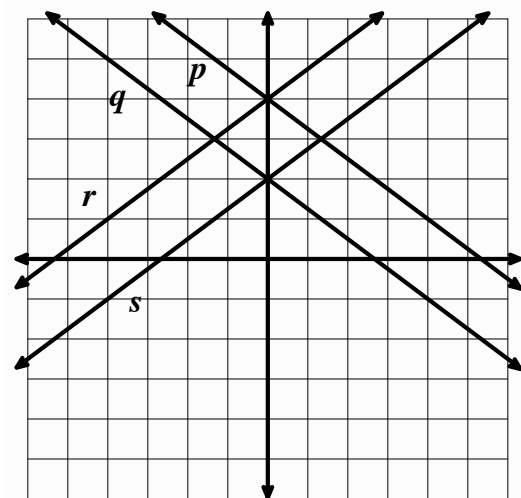
3. $y = \frac{3}{4}x + 2$

4. $y = -\frac{3}{4}x + 2$

5. $y = \frac{3}{4}x + 4$

6. $y = -\frac{3}{4}x + 4$

7. Describe the shape made by the intersection of the 4 lines. List as many observations as you can about the shape and its features.



Set

Topic: Parallel lines with a transversal, vertical angles, and the exterior angle of a triangle

Label each picture as showing *parallel lines with a transversal*, *vertical angles*, or an *exterior angle of a triangle*. Highlight the geometric feature you identified. Can you find all 3 features in 1 picture? Where?

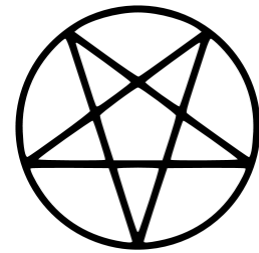
8.



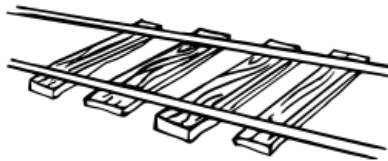
9.



10.



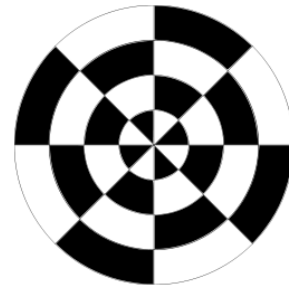
11.



12.



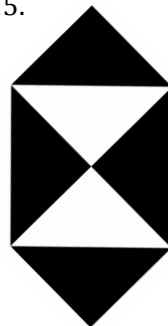
13.



14.



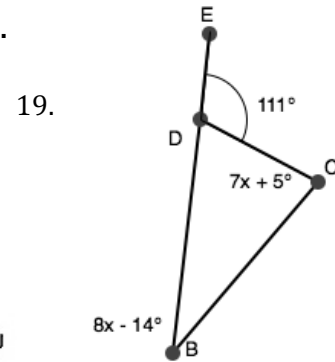
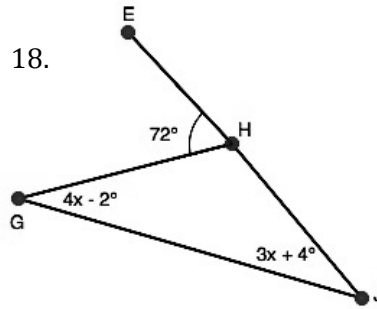
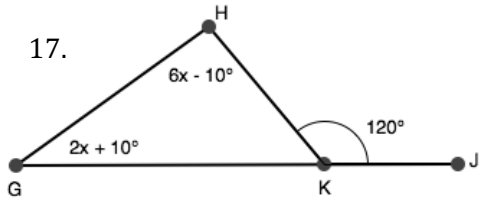
15.



16.

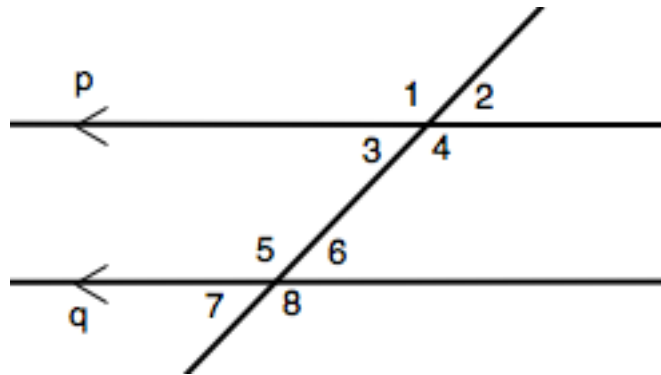


Find the value of the 2 remote interior angles in the figures below.



Indicate whether each pair of angles is *congruent* or *supplementary* by trusting how they look. Lines *p* and *q* are parallel.

- 20. $\angle 5$ and $\angle 8$
- 21. $\angle 2$ and $\angle 6$
- 22. $\angle 2$ and $\angle 8$
- 23. $\angle 4$ and $\angle 6$
- 24. $\angle 3$ and $\angle 5$
- 25. $\angle 1$ and $\angle 3$



Go

Topic: Complementary and supplementary angles.

Find the complement and the supplement of the given angles. It is possible for the complement or supplement not to exist.

- 26. 37°
- 27. 59°
- 28. 89°
- 29. 111°
- 30. 3°
- 31. 90°

