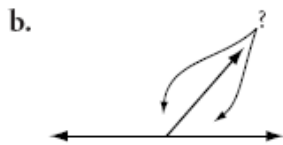
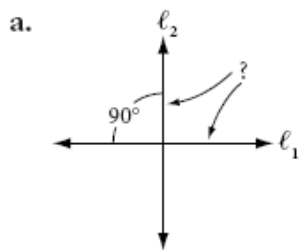


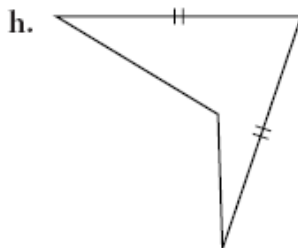
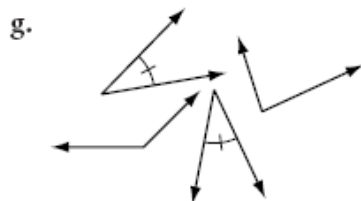
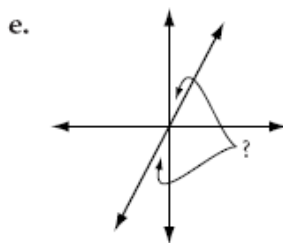
Unit 1 Geometry Review

Part A

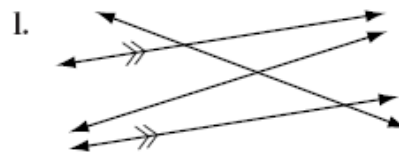
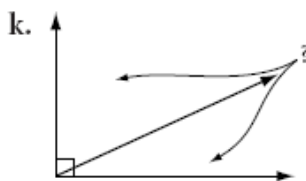
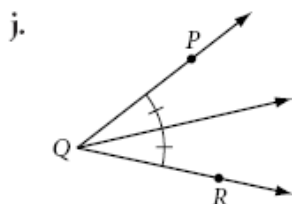
For Exercises 1–12, match each term with one of the items (a to l) below.



d. $m\angle P = 68^\circ$
 $m\angle XYZ = 114^\circ$
 $m\angle Y = 112^\circ$
 $m\angle STP = 58^\circ$



i. $m\angle A = 87^\circ$
 $m\angle X = 96^\circ$
 $m\angle Y = 90^\circ$



- | | |
|----------------------------------|--------------------------------------|
| 1. ____ Pair of vertical angles | 2. ____ Pair of supplementary angles |
| 3. ____ Right angle | 4. ____ Obtuse angle |
| 5. ____ Pair of congruent angles | 6. ____ Pair of complementary angles |
| 7. ____ Linear pair of angles | 8. ____ Acute angle |
| 9. ____ Bisected angle | 10. ____ Parallel lines |
| 11. ____ Congruent segments | 12. ____ Perpendicular lines |

For Exercises 15–17, sketch, label, and mark a figure showing each property.

15. $\ell_1 \parallel \ell_2, \ell_2 \perp \ell_3$

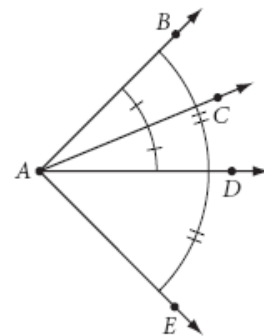
16. $\overline{PQ} \perp \overline{PR}$

17. $\angle BAC \cong \angle XAY, CX = BC$

Part B

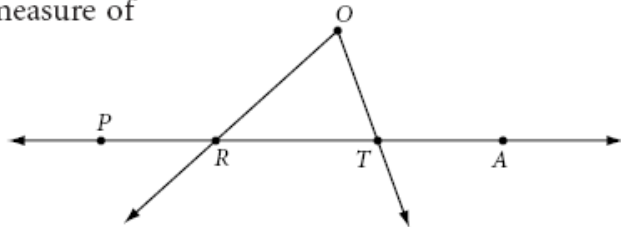
For Exercises 1–5, use the figure at right to complete each statement.

1. A is _____ of $\angle BAE$.
2. \overrightarrow{AD} is _____ of $\angle BAE$.
3. \overrightarrow{AD} is _____ of $\angle DAE$.
4. If $m\angle BAC = 42^\circ$, then $m\angle CAE =$ _____.
5. $\angle DAB \cong$ _____.



For Exercises 6–10, use your protractor to find the measure of each angle to the nearest degree.

6. $m\angle PRO$
7. $m\angle ORT$
8. $m\angle O$
9. $m\angle RTO$
10. $m\angle ATO$



For Exercises 11–13, use your protractor to draw and then label each angle with the given measure.

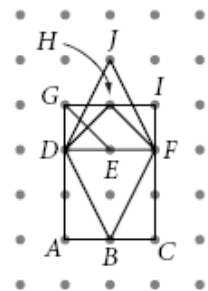
11. $m\angle MNO = 15^\circ$
12. $m\angle RIG = 90^\circ$
13. $m\angle z = 160^\circ$

17. What's wrong with this statement? " \overrightarrow{PQ} is the angle bisector of $\angle APB$ and $m\angle APQ = 107^\circ$."

Part C

For Exercises 13–22, name each polygon in the figure. Assume that the grid is square.

- | | |
|---------------------------|------------------------|
| 13. Square | 14. Rectangle |
| 15. Parallelogram | 16. Trapezoid |
| 17. Rhombus | 18. Kite |
| 19. Concave quadrilateral | 20. Isosceles triangle |
| 21. Scalene triangle | 22. Right triangle |



PART D

1. Draw a **linear pair** of angles. Label the angles as angle 3 and angle 4.
2. Draw **Circle A** with **diameter** \overline{XY} .
3. Draw **Circle C** with **radius** \overline{CD} and **tangent line** \overleftrightarrow{DY} .
4. Draw **Circle P** with **chord** \overline{AB} , **secant** \overleftrightarrow{CD} and **central angle** $\angle APX$ with measure 100°
5. Draw **Circle A** with a **radius** of 2cm.