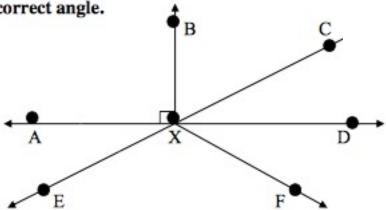
Angle Relationships Worksheet

A. Fill in the correct angle.

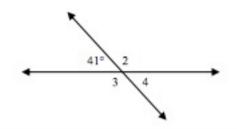


- ∠ AXE and _____ are vertical angles.
- ∠ AXF and _____ are supplementary angles.
- ∠ DXC and ______ are complementary angles.
- and ∠ AXB are adjacent angles.
- and ∠ CXD are supplementary angles.
- and ∠ AXC are vertical angles.

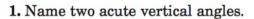
B. Fill in the correct angle measurement.

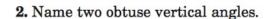
- 7) What is the complement of an 11° angle?
- What is the supplement of a 92° angle?
- 9) What is the complement of a 56° angle?

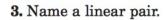
For #10 - 12, use the diagram to the right.

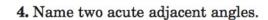


For Exercises 1-6, use the figure at the right and a protractor.



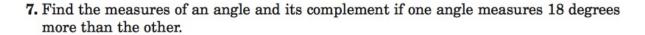






5. Name an angle complementary to
$$\angle EKH$$
.

6. Name an angle supplementary to $\angle FKG$.

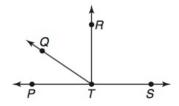


8. The measure of the supplement of an angle is 36 less than the measure of the angle. Find the measures of the angles.

ALGEBRA For Exercises 9-10, use the figure at the right.

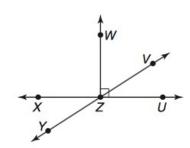
9. If
$$m \angle RTS = 8x + 18$$
, find x so that $\overrightarrow{TR} \perp \overrightarrow{TS}$.

10. If
$$m \angle PTQ = 3y - 10$$
 and $m \angle QTR = y$, find y so that $\angle PTR$ is a right angle.



Determine whether each statement can be assumed from the figure. Explain.

11. $\angle WZU$ is a right angle.



12. $\angle YZU$ and $\angle UZV$ are supplementary.

13. $\angle VZU$ is adjacent to $\angle YZX$.