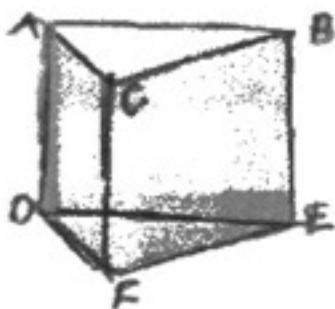


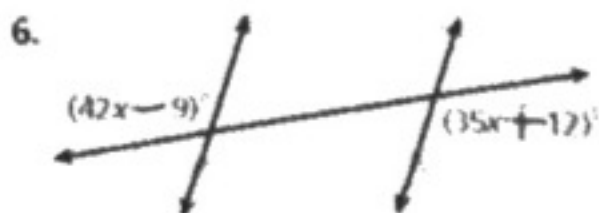
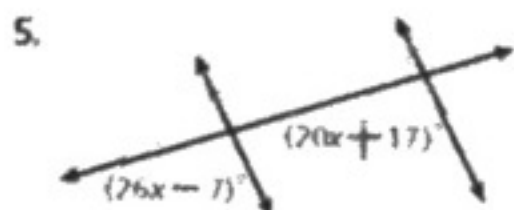
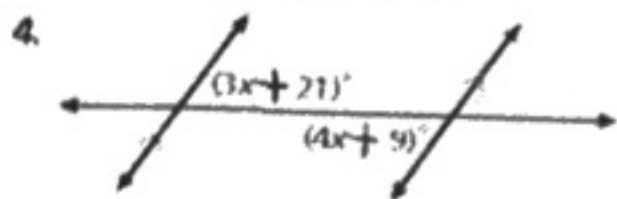
Review Worksheet 2

Identify each of the following.

1. a pair of parallel planes
2. a pair of parallel segments
3. a pair of skew segments



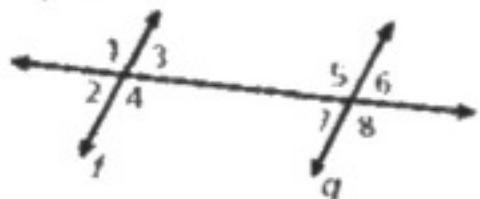
Find each angle measure.



Use the given information and the theorems and postulates you have learned to show $f \parallel g$.

7. $m\angle 4 = (16x + 20)^\circ$, $m\angle 5 = (12x + 32)^\circ$, $x = 3$

8. $m\angle 3 = (18x + 6)^\circ$, $m\angle 5 = (21x + 18)^\circ$, $x = 4$

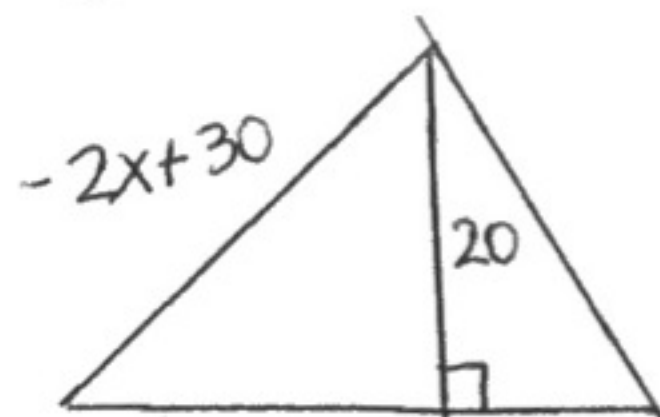
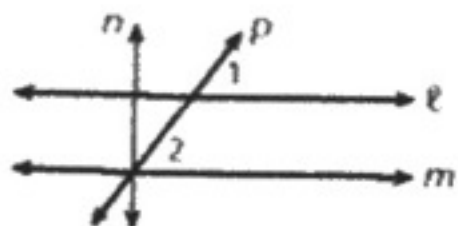


17) write and solve an inequality for x .

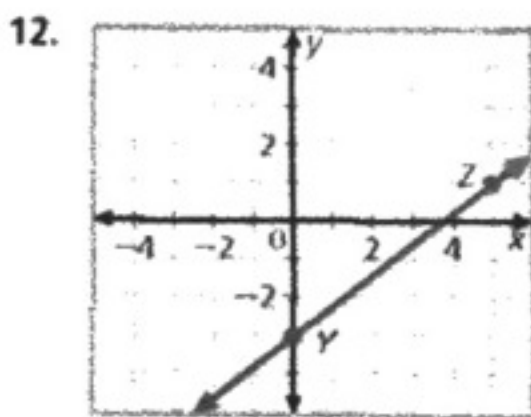
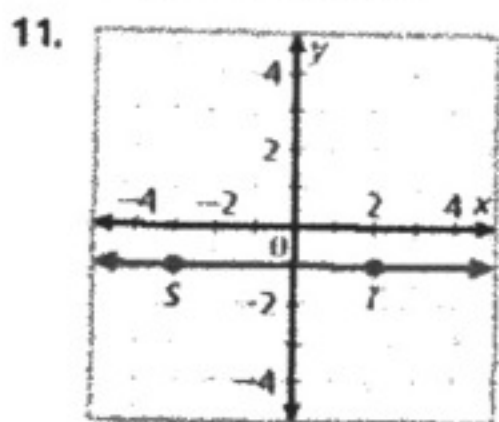
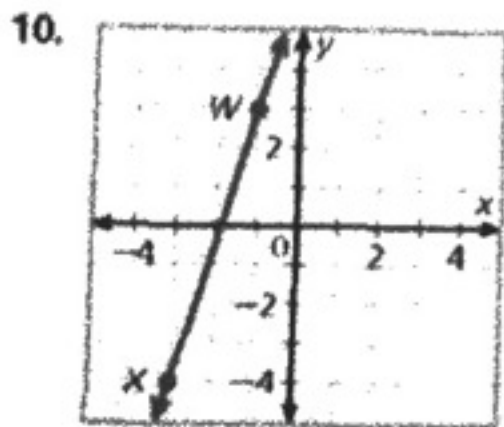
Write a two-column proof.

Given: $\angle 1 \cong \angle 2$, $n \perp \ell$

Prove: $n \perp m$



Use the slope formula to determine the slope of each line.



18) Find the slope of $(2, 3)$ and $(-1, 5)$

13. Greg is on a 32-mile bicycle trail from Elroy, Wisconsin, to Sparta, Wisconsin. He leaves Elroy at 9:30 A.M. and arrives in Sparta at 2:00 P.M. Graph the line that represents Greg's distance from Elroy at a given time. Find and interpret the slope of the line.
14. Graph \overrightarrow{QR} and \overrightarrow{ST} for $Q(3, 3)$, $R(6, -5)$, $S(-4, 6)$, and $T(-1, -2)$. Use slopes to determine whether the lines are parallel, perpendicular, or neither.
15. Write the equation of the line through $(-2, -5)$ with slope $-\frac{3}{4}$ in point-slope form.
16. Determine whether the lines $6x + y = 3$ and $2x + 3y = 1$ are parallel, intersect, or coincide.

19) Write the equation of a line through $(5, 5)$ and $(1, 3)$ in slope intercept form.