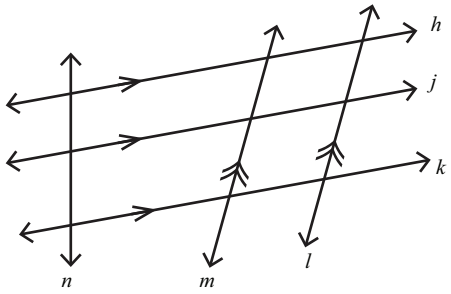
Handout 1: Read Between the Lines



1. What two characteristics do lines need to have in order to be parallel?

2. Two lines that never intersect must be parallel. Is this true or false?

3. Which of the lines in the figure are parallel to j?

4. Which of the lines in the figure are parallel to n?

5. Which of the lines in the figure are not parallel to l?

6. Line w has the equation $y = \frac{1}{3}x + 1$. If line v is parallel to line w and passes through $(0, 0)$, what is the equation of line v?

7. Line p has the equation $5x + 10y = 20$. If line q is parallel to line p and passes through $(10, 0)$, what is the equation of line q?

8. Line a has the equation $7x + 2y = 14$ and line b has the equation $7x - 2y = 16$. Are the two lines parallel?

9. Line r has the equation $2x + 3y = 17$ and line s has the equation $-4x - 6y = 12$. Are the two lines parallel?

10. Line g has the equation $27x - 9y = 18$ and line h has the equation $9x - 3y = 6$. Are the two lines parallel?
