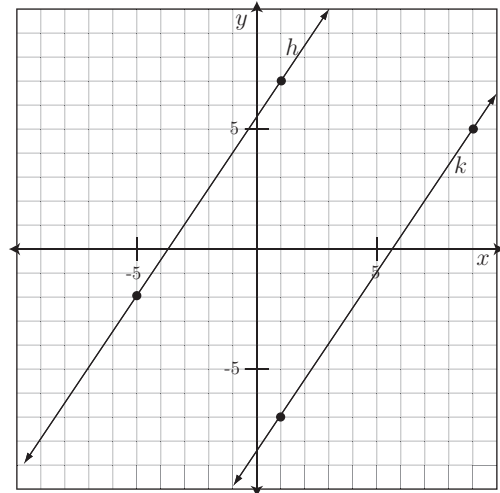
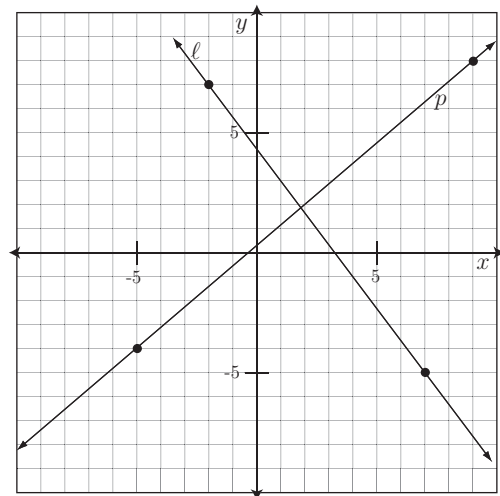


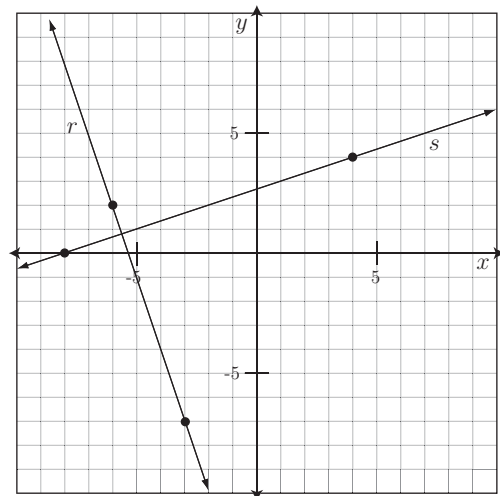
1. Are the lines h and k graphed below parallel? Explain.



2. Are the lines ℓ and p graphed below perpendicular? Explain.



3. Are the lines r and s graphed below perpendicular? Explain.



4. Suppose line f has the table below.

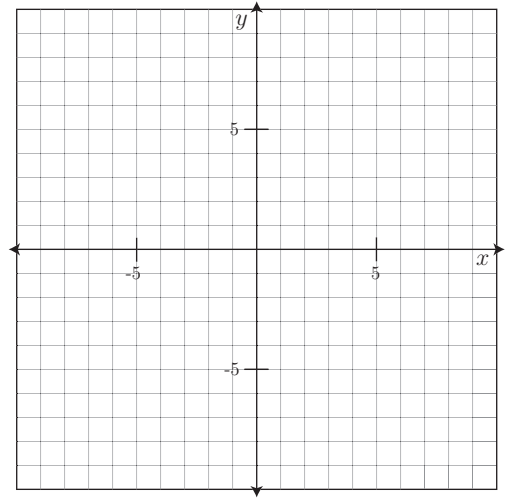
x	-5	-2	1	4	7
y	11	4	-3	-10	-17

If line g is perpendicular to f , complete the table below for g .

x			-2		
y			5		

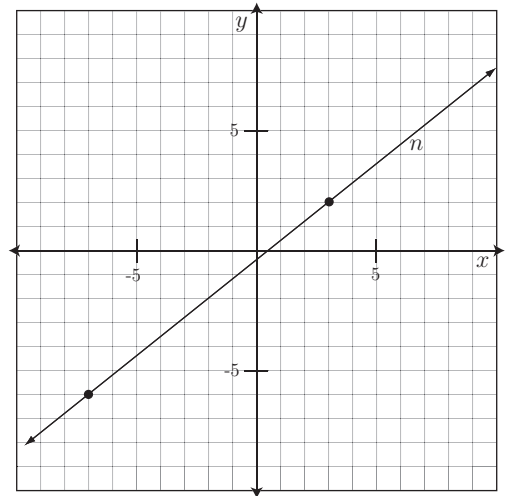
5. Use the graph shown on the right to do the following.

- (a) Graph the line that passes through the points $(-9, -4)$ and $(2, 6)$.
- (b) Graph the line that passes through the points $(-1, 5)$ and $(4, -1)$.
- (c) Are the lines in (a) and (b) perpendicular? Explain.



6. Use the graph shown on the right to do the following.

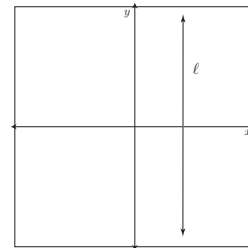
- (a) Plot the point $(-5, 7)$.
- (b) Graph the line that passes through the point $(-5, 7)$ and is perpendicular to the line n .
- (c) How did you guarantee the line you graphed was perpendicular to n ?



7. (a) Sketch and label a line q parallel to the line, ℓ graphed to the right.

(b) Then sketch and label a line w perpendicular to ℓ .

(c) Give possible equations for your graphs of q and w .



8. Jerome leaves his house at 10:00 AM and checks the odometer on his car which reads 42,655 miles. He gets in the car and drives until 1:00 PM. When he checks the odometer again it now reads 42,847 miles. What was Jerome's average speed?

9. Alice gets in a cab and tells the cab driver where to take her. She notices the meter in front and sees that after they have driven 3 miles, she owes \$8.10. Later she sees that after they have driven 7 miles, she owes \$15.30. How much is Alice getting charged per mile?