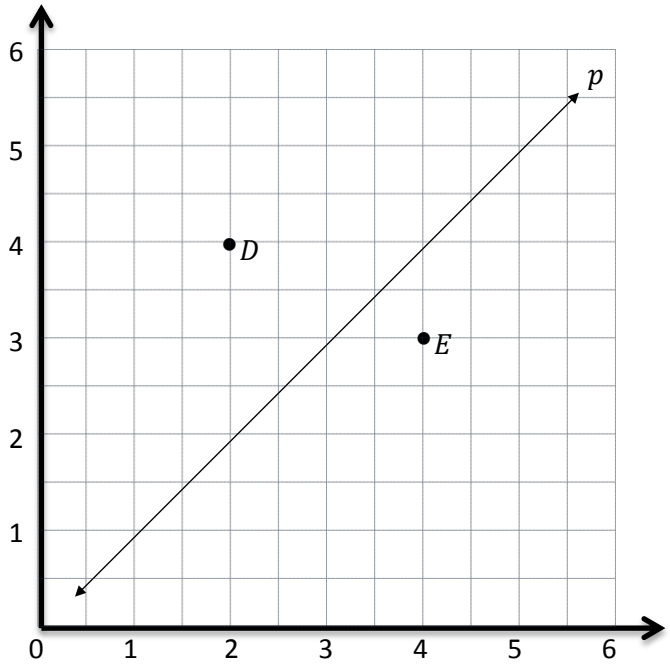
Name _____ Date _____

1. Use the coordinate plane to complete the following tasks.



   a. Line $\boldsymbol{p}$ represents the rule *x and y are equal*.

   b. Construct a line, $\boldsymbol{d}$, that is parallel to line $\boldsymbol{p}$ and contains point D.

   c. Name 3 coordinates pairs on line $\boldsymbol{d}$.

   d. Identify a rule to describe line $\boldsymbol{d}$.

   e. Construct a line, $\boldsymbol{e}$, that is parallel to line p and contains point E.

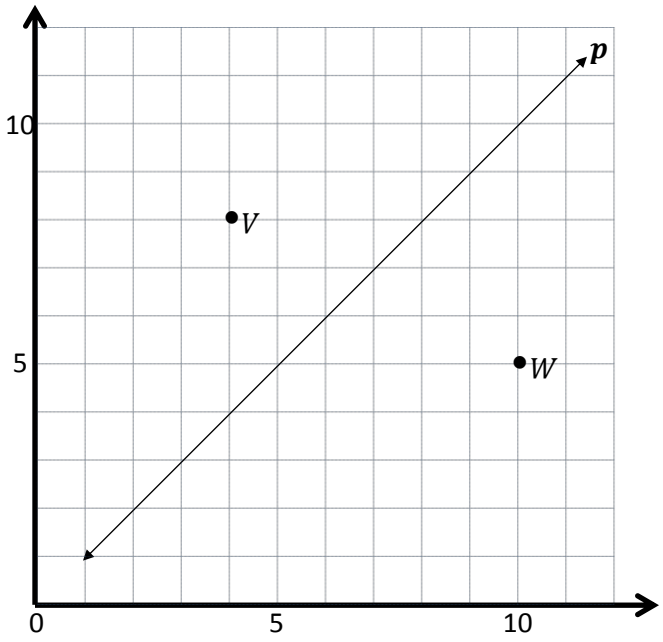
   f. Name 3 points on line $\boldsymbol{e}$.

   g. Identify a rule to describe line $\boldsymbol{e}$.

   h. Compare and contrast lines $\boldsymbol{d}$ and $\boldsymbol{e}$ in terms of their relationship to line $\boldsymbol{p}$.

2. Write a rule for a fourth line that would be parallel to those above and that would contain the point $(5\frac{1}{2}, 2)$. Explain how you know.

3. Use the coordinate plane below to complete the following tasks.
   a. Line $\boldsymbol{p}$ represents the rule x *and* y *are equal*.
   b. Construct a line, $\boldsymbol{v}$, that contains the origin and point V.
   c. Name 3 points on line $\boldsymbol{v}$.
   d. Identify a rule to describe line $\boldsymbol{v}$.
   e. Construct a line, $\boldsymbol{w}$, that contains the origin and point W.
   f. Name 3 points on line $\boldsymbol{w}$.
   g. Identify a rule to describe line $\boldsymbol{w}$.



   h. Compare and contrast lines $\boldsymbol{v}$ and $\boldsymbol{w}$ in terms of their relationship to line $\boldsymbol{p}$.
   i. What patterns do you see in lines that are generated by multiplication rules?

Line p

Rule: y is 0 more than x

x	y	(x, y)
0		
5		
10		
15		

Line b

Rule: _____

x	y	(x, y)
7		
10		
13		
18		

Line c

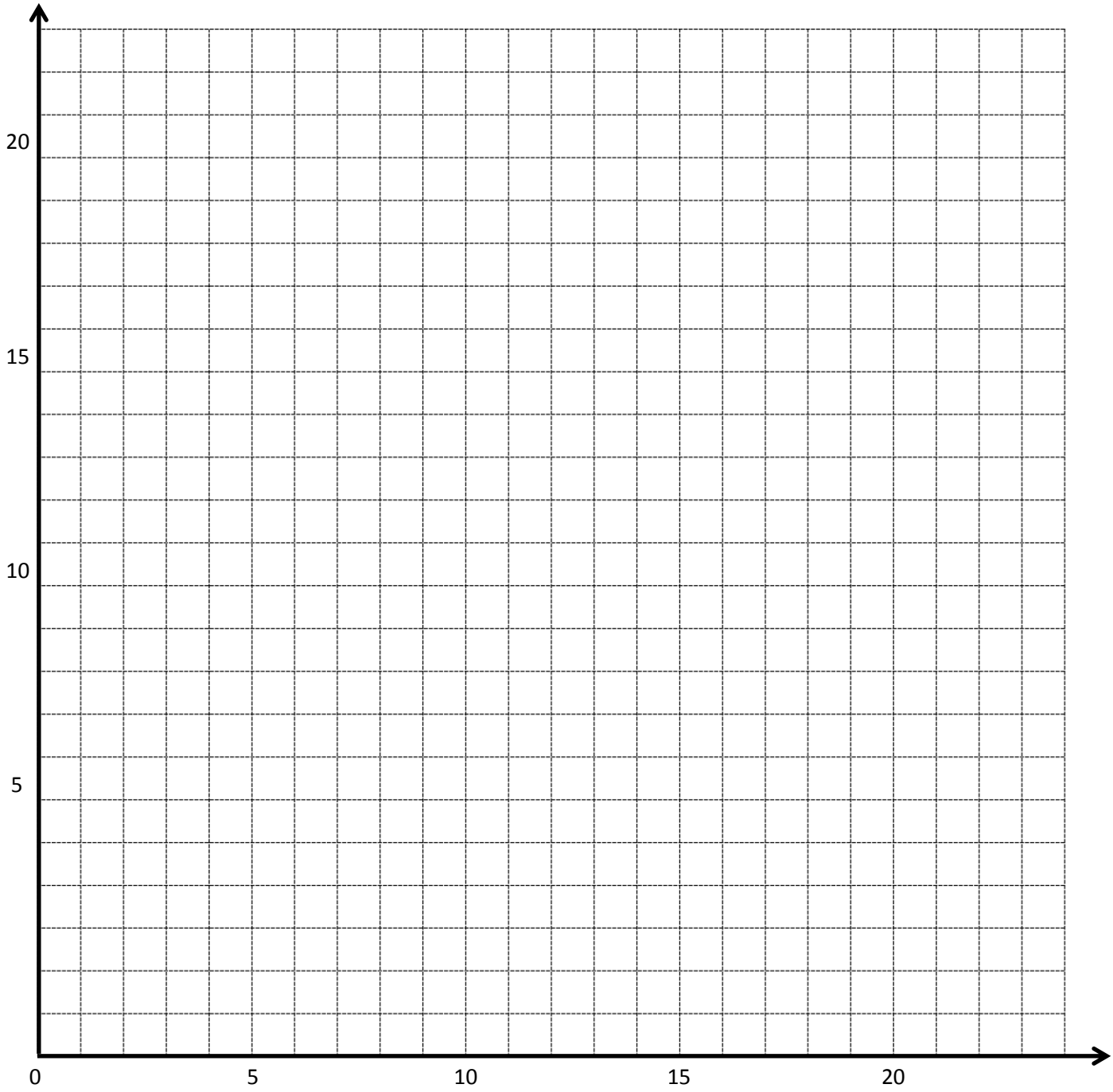
Rule: _____

x	y	(x, y)
2		
4		
8		
11		

Line d

Rule: _____

x	y	(x, y)
5		
7		
12		
15		



Line g

Rule: _____

x	y	(x, y)
1		
2		
5		
7		

Line h

Rule: _____

x	y	(x, y)
3		
6		
12		
15