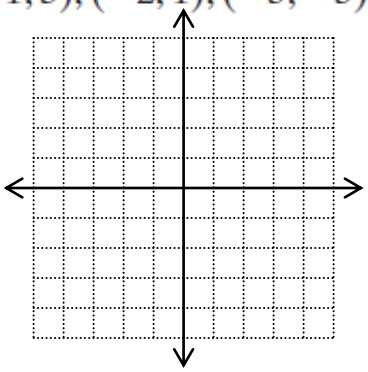
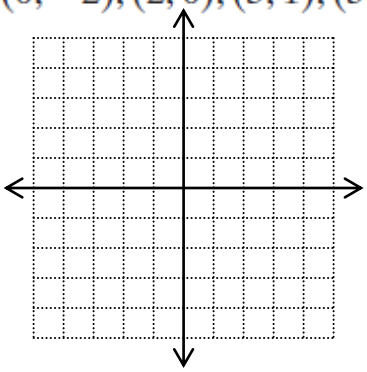
Unit 1 Function Relationships **Name**_____
Day 1 to 10 Review Homework **Date**_____ **Hour**_____
Relations , Functions, and Writing a Function Rule (PH ALG2 2-1)

Graph each relation.

1. $\{(-1,3),(-2,1),(-3,-3),(-4,-5)\}$

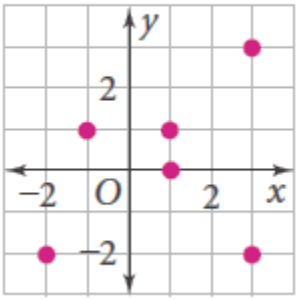


2. $\{(0,-2),(2,0),(3,1),(5,3)\}$



Write the ordered pairs for each relation. Find the domain and range.

5.



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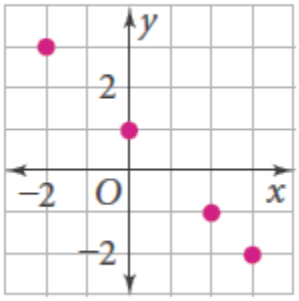

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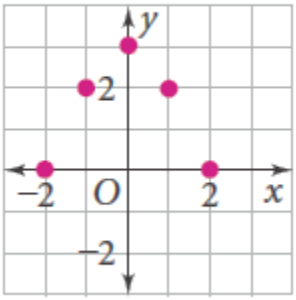


Determine if the relation is a function. State the Domain and the Range.

10. $\{(-\frac{1}{2},11),(0,10),(\frac{1}{2},5),(1,12)\}$

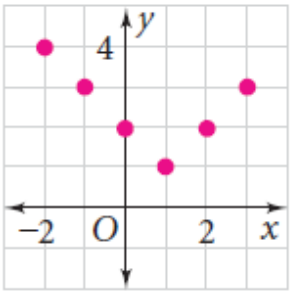
11. $\{(5,10),(10,5),(15,20),(20,15)\}$

12. $\{(1,-2),(-2,0),(-1,2),(1,3)\}$

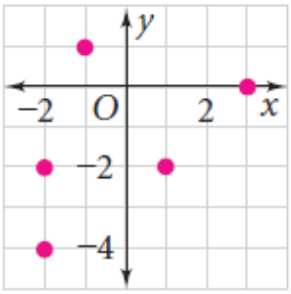
13. $\{(1,1),(2,2),(3,5),(4,10),(5,15)\}$

Use the vertical-line test to determine if the relation is a function. State the domain and range.

16.



17.



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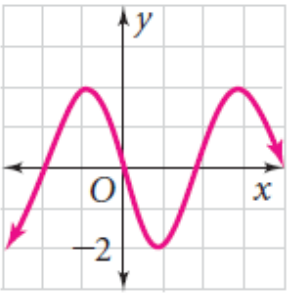

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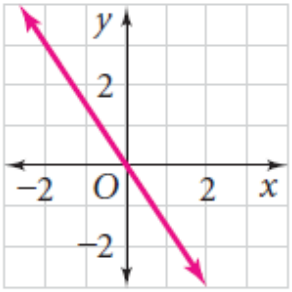

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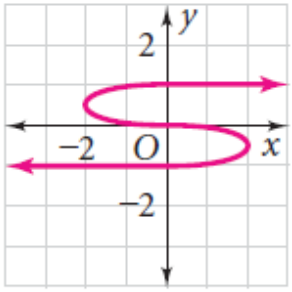
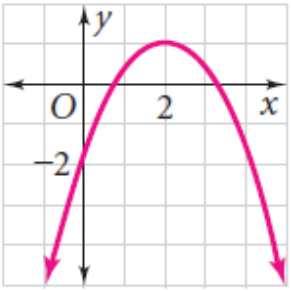


21.



For each function, find $f(-5)$, $f(-3)$, $f\left(\frac{1}{2}\right)$, and $f(4)$.

22. $f(a) = 2a + 3$

26. $f(d) = 1 - 4d$

31. Measurement One meter equals about 39.37 in. Write a function rule for converting inches to meters. Evaluate the function for 59 in.

Write a rule/equation for each table.

32)

X	f(x)
2	-1
3	0
4	1
5	2

33)

x	G(x)
0	0
4	2
9	3
16	4

34)

q	P(q)
1	-2
5	-10
10	-20
15	-30