Algebra 2 WS: Chapter 1 Review

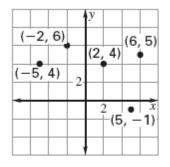
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In 1 - 4, evaluate the function when x = -2.

1.
$$f(x) = x$$

2. $g(x) = 5|x-3|$
3. $h(x) = -2x^2 + 1$
4. $j(x) = x^3 + 2x^2$

Use the relation shown for problems 5 - 7.



5. Identify the domain of the relation.

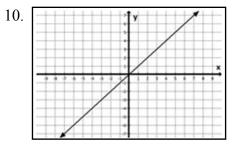
6. Identify the range of the relation.

7. Is the relation a function? *Explain your answer*.

In 8 - 10, identify the parent function graphed by writing the name or the equation. Then identify the type of symmetry and the domain and range (using interval notation).

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9.		
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Parent Function:	
Symmetry:	
D:	
D.	

 Parent Function:

 Symmetry:

 D:

 R:

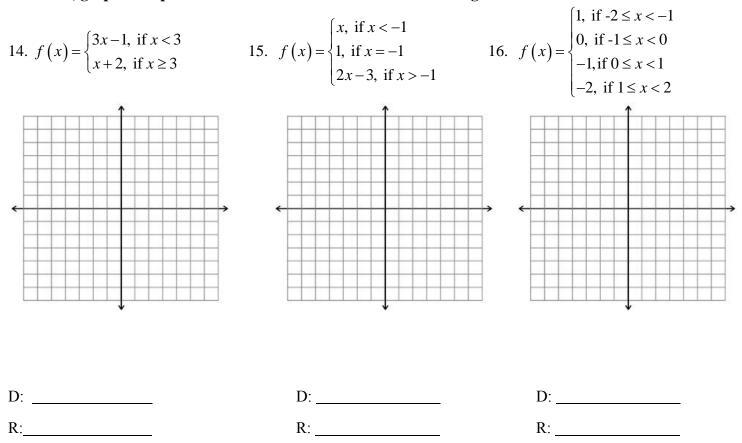
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In 11 - 13, using the graph of f(x) = |x| as a guide, describe the transformations of each function and identify its domain and range.

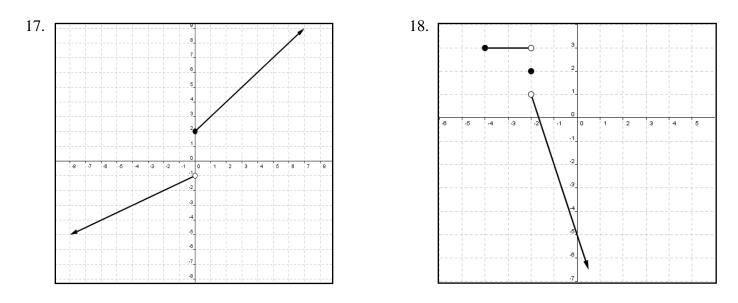
11. $g(x) = 2 x - 4$	12. $h(x) = -2 x-3 + 1$	13. $k(x) = 0.2 x+1 - 2$
Transformations:	Transformations:	Transformations:

D:	D:	D:
R:	R:	R:

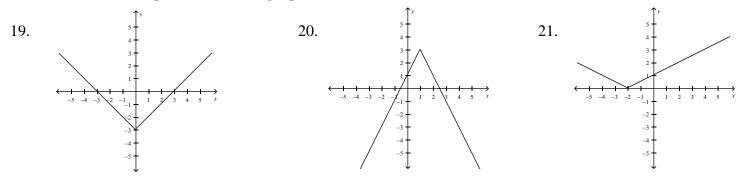
In 14 - 16, graph each piecewise function. State the domain and range.



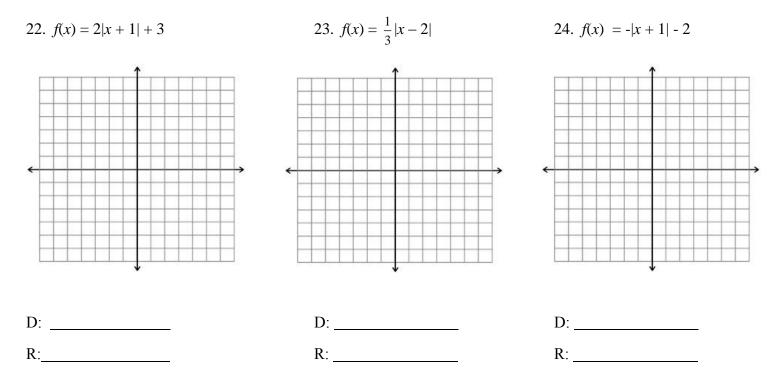
In 17 - 18, write a rule for the piecewise function.



In 19 - 21, write an equation for each graph shown.



In 22 - 24, graph the absolute value function. State the domain and range.





25. $2x - y + 2z = 15$	26. $a + b = 3$	27. $2x + 3y + 4z = 2$
-x + y + z = 3	-b + c = 3	5x - 2y + 3z = 0
3x - y + 2z = 18	a + 2c = 10	x - 5y - 2z = -4