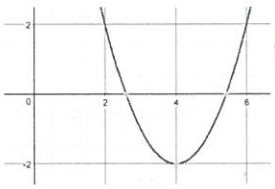
Algebra 2 S1 Name: _____ Block: _____

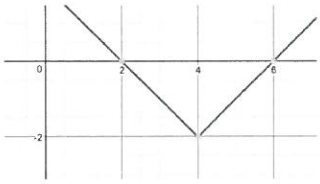
Topic: Graphing Domain and Range

	In addition a 3.0, student will demonstrate the ability to analyze another person's work to identify and correct errors.
3	☐ **Transformations of graphs** ▪ **Given graph, write the function.** ▪ **Given a parent function and transformations, write a new function.** ☐ Graph a polynomial ▪ Use the zeros to construct a rough graph of the function defined by the polynomial. ▪ Show end behavior ☐ Represent addition, subtraction, multiplication, and conjugation of complex numbers geometrically on the complex plane; use properties of this representation for computation.
2	☐ **Identify transformations of graphs** ☐ **Identify domain graphically** ☐ **Identify range graphically** ☐ Given the graph of a polynomial, identify the zeros. ☐ Represent complex numbers on the complex plane in rectangular form (including real and imaginary numbers).
1	Insufficient progress towards foundational skills and knowledge.

For each graph, find the domain and range.

1. 

D: $-\infty < x < \infty$
R: $-2 \leq y < \infty$

2. 

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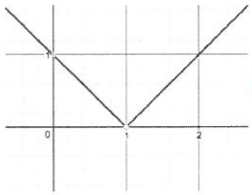
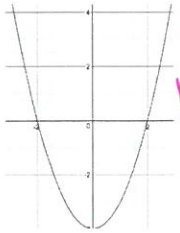
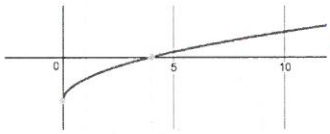
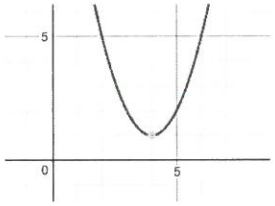
3. 

D: $-\infty < x < \infty$
R: $0 \leq y < \infty$

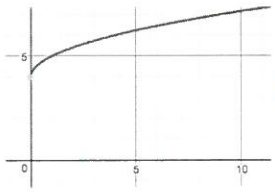
4. 
D: $-\infty < x < \infty$
R: $-4 \leq y < \infty$

5. 

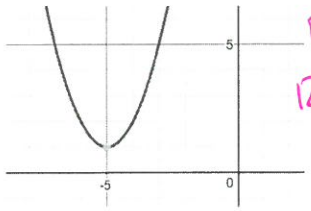
D: $0 \leq x < \infty$
R: $-1 \leq y < \infty$

6. 

D: $-\infty \leq x < \infty$
R: $1 \leq y < \infty$

7. 

D: $0 \leq x < \infty$
R: $4 \leq y < \infty$

8. 

D: $-\infty < x < \infty$
R: $1 \leq y < \infty$

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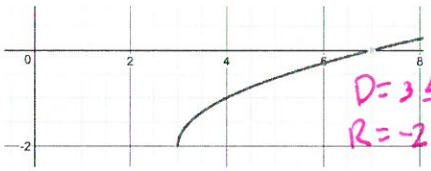
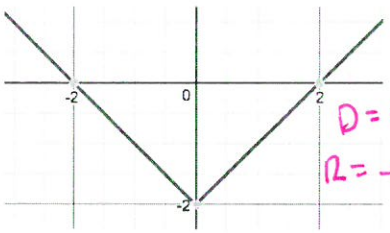
9.



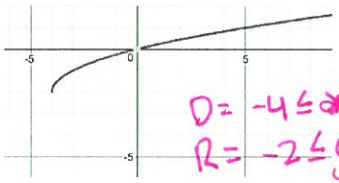
D: $3 \leq x < \infty$
R: $-2 \leq y < \infty$

10.



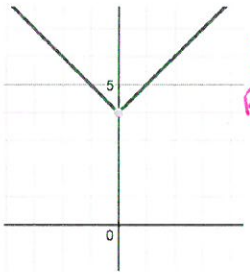
D: $-\infty < x < \infty$
R: $-2 \leq y < \infty$

11.



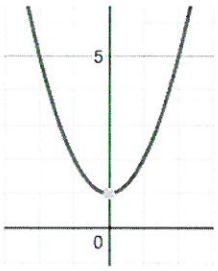
D: $-4 \leq x < \infty$
R: $-2 \leq y < \infty$

12.



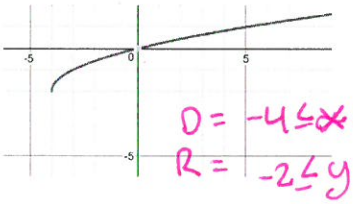
D: $-\infty < x < \infty$
R: $-4 \leq y < \infty$

13.



D: $-\infty < x < \infty$
R: $1 \leq y < \infty$

14.



D: $-4 \leq x < \infty$
R: $-2 \leq y < \infty$