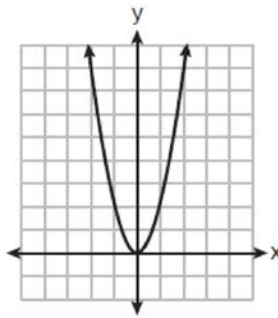


### Algebra I Regents Bimodal Graph Worksheet

- 1 Which graph shows a line where each value of  $y$  is three more than half of  $x$ ?
- 2 Morgan can start wrestling at age 5 in Division 1. He remains in that division until his next odd birthday when he is required to move up to the next division level. Which graph correctly represents this information?
- 3 Which graph represents the solution of  $y \leq x + 3$  and  $y \geq -2x - 2$ ?
- 4 Given:  $y + x > 2$   
 $y \leq 3x - 2$   
Which graph shows the solution of the given set of inequalities?

5 Which graph represents  $y = \sqrt{x - 2}$ ?

6 The graph of  $y = f(x)$  is shown below.



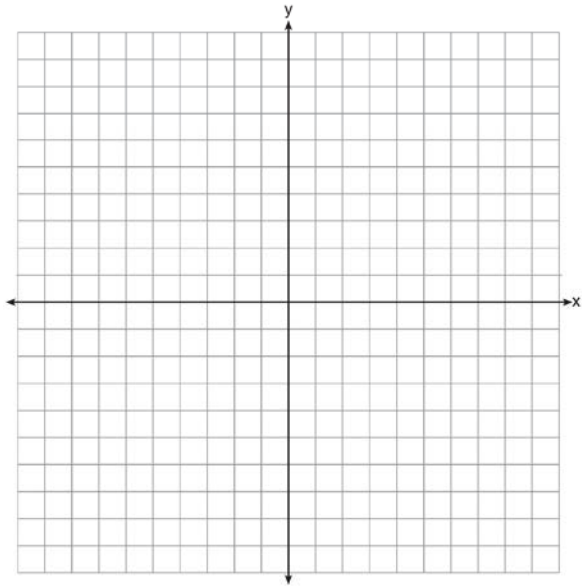
Which graph represents  $y = f(x - 2) + 1$ ?

7 A population that initially has 20 birds approximately doubles every 10 years. Which graph represents this population growth?

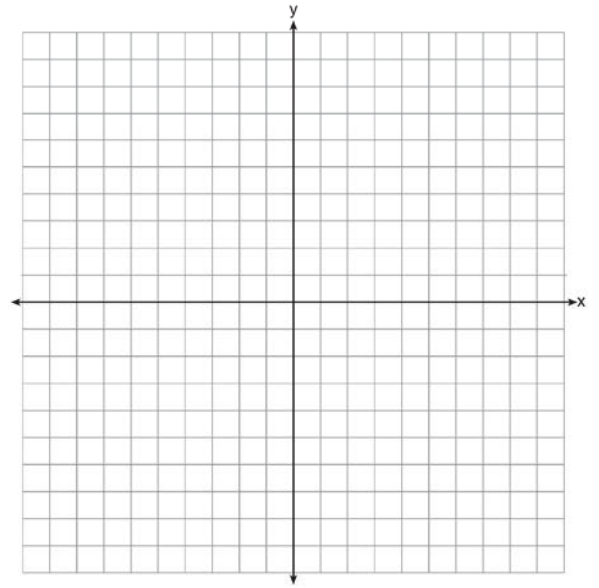
8 Which graph represents  $f(x) = \begin{cases} |x| & x < 1 \\ \sqrt{x} & x \geq 1 \end{cases}$ ?

**Algebra I Regents Bimodal Graph Worksheet**

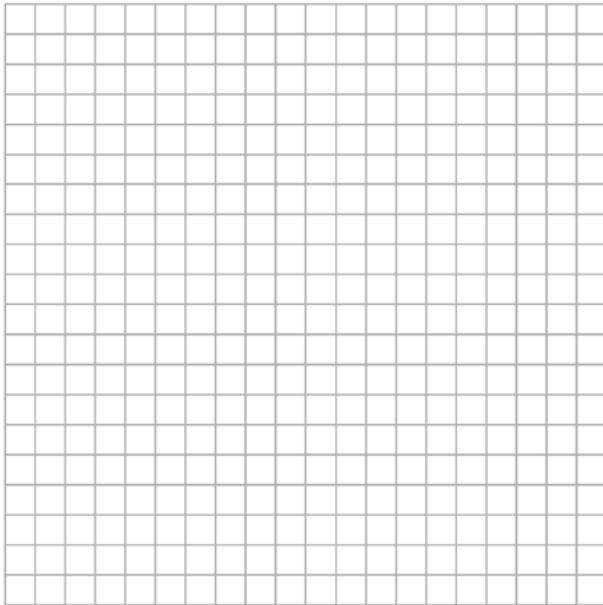
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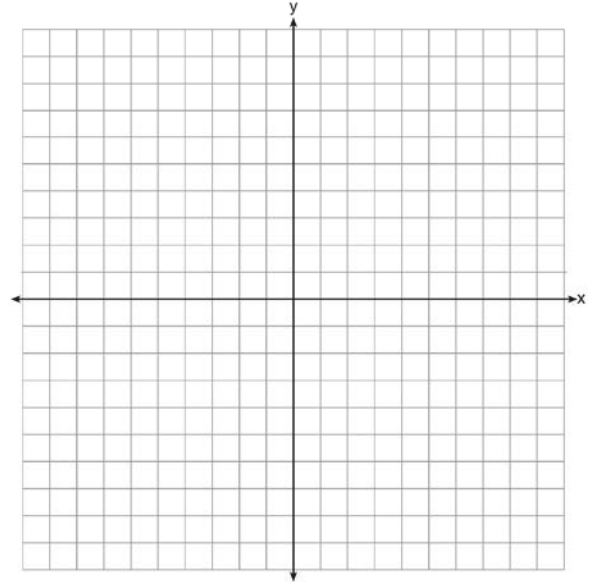
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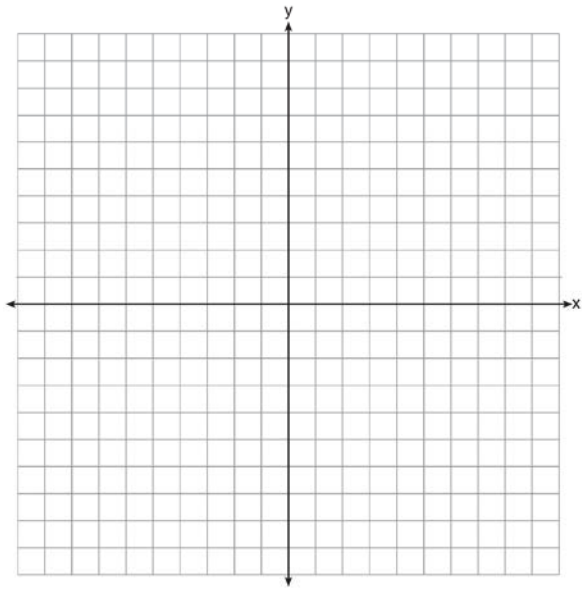
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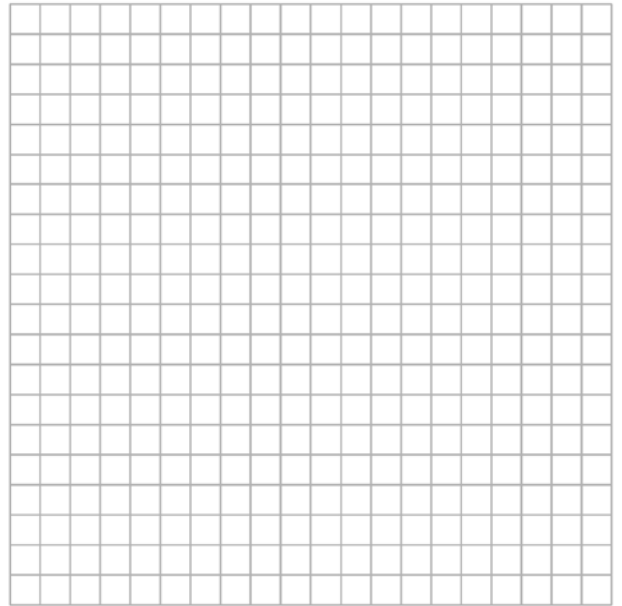
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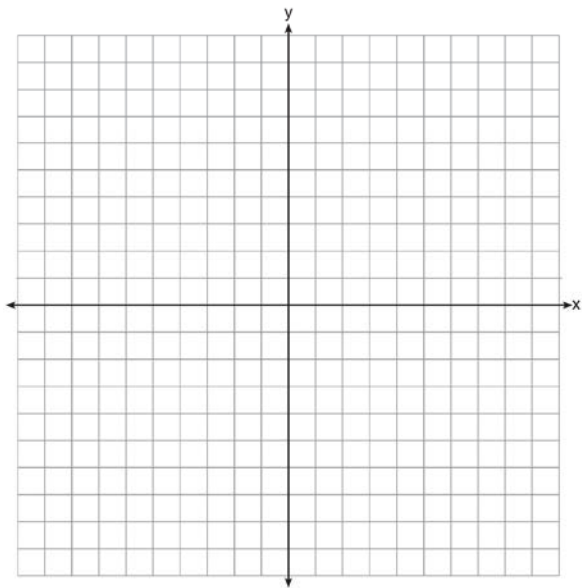
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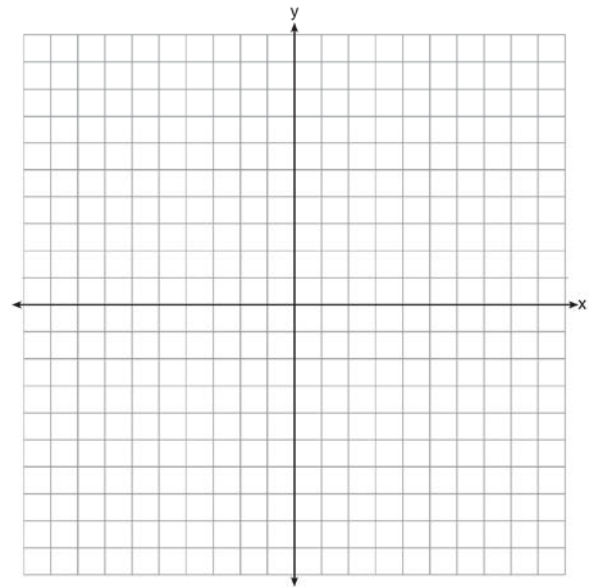
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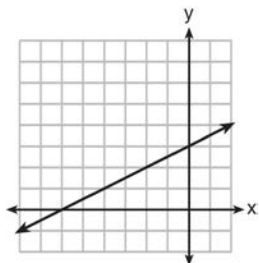


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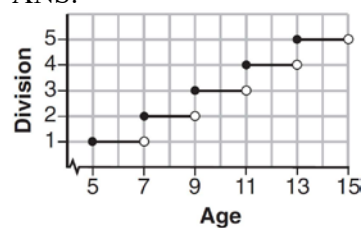
## Algebra I Regents Bimodal Graph Worksheet Answer Section

1 ANS:



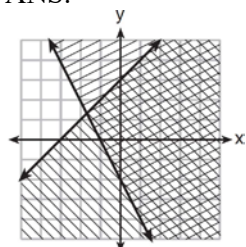
REF: 081413ai TOP: Graphing Linear Functions

2 ANS:



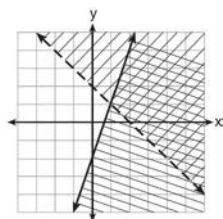
REF: 061507ai TOP: Graphing Step Functions

3 ANS:



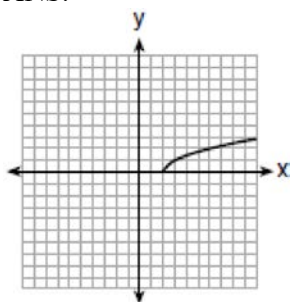
REF: 081506ai TOP: Graphing Systems of Linear Inequalities

4 ANS:



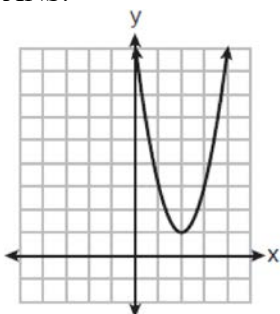
REF: 061404ai TOP: Graphing Systems of Linear Inequalities

5 ANS:



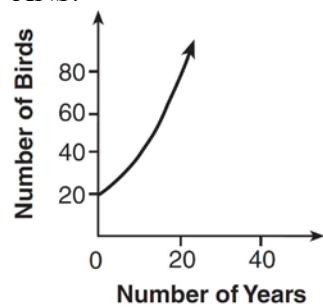
REF: 061703ai TOP: Graphing Root Functions

6 ANS:



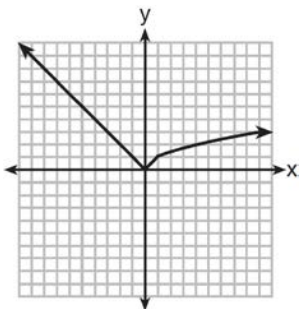
REF: 082305ai TOP: Graphing Polynomial Functions

7 ANS:



REF: 081410ai TOP: Families of Functions

8 ANS:



REF: 081516ai TOP: Graphing Piecewise-Defined Functions