Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1 PTech

Warm Up

1. The sum of two numbers is 47, and their difference is 15. What is the larger number?

2. Ben has four more than twice as many CDs as Jake. If they have a total of 31 CDs, how many CDs does Jake have?

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1 PTech

Cool Down

1. The graphs of the equations  and are drawn on the same set of axes. At which point do the graphs intersect?

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1 PTech



Midterm Review

HW 1

Show all work for each question – including multiple choice. An answer alone with no work shown will not receive any credit.

1. What is the value of *x* in the equation ?

|  |  |
| --- | --- |
| 1) |  |
| 2) | 2 |
| 3) |  |
| 4) |  |

2. Which value of *x* is the solution of the equation ?

|  |  |
| --- | --- |
| 1) |  |
| 2) | 2 |
| 3) |  |
| 4) |  |

3. Which equation illustrates the associative property? Explain your response.

|  |  |
| --- | --- |
| 1) |  |
| 2) |  |
| 3) |  |
| 4) |  |

4. What is the slope of the line whose equation is ?

5. If , what is *y* in terms of *e*, *n*, *k*, and *t*?

6. Roberta needs ribbon for a craft project. The ribbon sells for $3.75 per yard. Find the cost, in dollars, for 48 inches of the ribbon.

7. A line having a slope of  passes through the point . Write the equation of this line.

8. Which point lies on the graph represented by the equation ?

|  |  |
| --- | --- |
| 1) |  |
| 2) |  |
| 3) |  |
| 4) |  |

9. Which set builder notation describes ? Explain your answer.

|  |  |
| --- | --- |
| 1) |  |
| 2) |  |
| 3) |  |
| 4) |  |

10. Mr. Stanton asked his students to write an algebraic expression on a piece of paper. He chose four students to go to the board and write their expression.

Robert wrote: 

Meredith wrote: 

Steven wrote: 

Cynthia wrote: 

Which student wrote an algebraic expression? Explain your response.