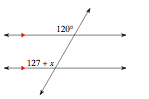
Secondary Math 2 Final Review Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_

State the relationship, then solve for x.

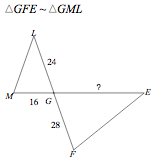


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| --- | --- |
| 1. L |  |

Find the measure of the indicated arc or angle.

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Find the missing length given that the triangles are similar.

1. 

Determine the missing side or angle. Round to the nearest hundredth.

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1. A kite with a string 150ft long makes an angle of 45° with the ground. Draw a picture to represent the situation, then determine the height of the kite in the air.

Solve the quadratics below. SHOW ALL OF YOUR WORK. Leave as exact answers.

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Graph the quadratic equations below. Then identify the key features.

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| --- | --- |
|  | Vertex:  x-int:  y-int:  Domain:  Range:  Increasing:  Decreasing: |

Simplify the given expressions. Your answer should contain only positive exponents.

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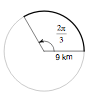
Given , find the average rate of change on the following intervals.

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| 1. Write the equation of a parabola with vertex at (3,-2) through the point (-1, 11) | 1. Write the equation of a parabola with x-intercepts at (-2,0) and (0,0) through the point (3,-12) |

1. Identify if the table below represents a linear, quadratic, or exponential function.



1. Find the arc length and sector area of the specified section below. Give both exact and approximate answers.



Find the missing angle.

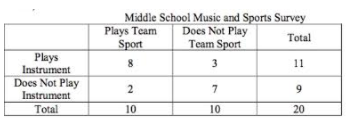
|  |  |
| --- | --- |
| 1. K |  |

Solve the following systems.



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Use the two-way table to find the specified probabilities. Let I represent playing an instrument and S represent playing a sport.



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