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| Homework 1.3 |

Geometry Applications A

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| 1. | The perimeter of a parking lot is 260 yards. If the length is 10 yards more than twice the width of the lot, find the dimension of the parking lot. | 2. | The perimeter of a swimming pool is 430 meters. If the length of the pool is 5 meters less than 10 times the width, find the dimensions of the pool. |

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| 3. | A 12 foot ladder is leaned against a wall. If the base of the ladder is 3 feet from the wall, how high up the wall does the ladder reach? (round to the 10th) | 4. | The bases in baseball are 90 feet apart. What is the shortest distance between home and second base? (round to the nearest 10th) |

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| 5. | A trapezoid has an area of 88 square cm. If the height is 8 cm and one of the bases is 12 cm, find the length of the other base. | 6. | The height of a trapezoid is 8 cm and its’ area is 92 cm2.  If the longer base is 4 less than twice the shorter, find the length of each base. |

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| 7. | A farmer uses a sprinkler that shoots a stream of water 60 feet long. If sprinkler rotates in a circular manner, find the number of square feet the sprinkler covers? What is the circumference of the circular area? | 8. | A loud siren radiates an alarm out in a circular fashion. If the siren can be heard within in a 100 square mile area, what is the longest possible distance from the siren? |

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| 9. | Jim is flying a kite with surface of 70 square inches. If the longer diagonal on his kite is 14 inches, find shorter diagonal. | 10. | The perimeter of a triangle is 400 cm. If the sides are in the ratio 2: 6 : 8, find the lengths of the three sides. |

**Review Equations**

11. Solve for x:  12. Solve graph and final answer in interval notation.

