**Cholkar MCHS MATH II \_\_\_/\_\_\_/\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

HW # 9

|  |  |  |  |  |  |  |  |  |  |  |  |
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| 1. Use  where *L*, *M*, and *N* are midpoints of the sides to fill in the blanks below. | | | | | | | | | | | |
|  |  | | | |  | | | | | * 1. is half the length of \_\_\_\_\_\_\_ | |
|  | | | | |  | |
|  | | | | |  | |
| * 1. is double the length of \_\_\_\_\_\_\_ | | | | |  | |
| 1. Find the values of *x* in each of the pictures below. | | | | | | | | | | | |
|  | | | * 1. is a midsegment of | | |  | | | | | * 1. is a midsegment of |
| 1. In the diagram below of  *D* is the midpoint of  *O* is the midpoint of  and *G* is the midpoint of     If   and  what is the perimeter of parallelogram *CDOG*?  (1) 21 (3) 32  (2) 25 (4) 40 | | | | | | | 1. In the diagram of  below,   and  Find the perimeter of the triangle formed by connecting the midpoints of the sides of | | | | |
| 1. On the set of axes to the right, graph and label  with vertices at   and  If *G* is the midpoint of  and *H* is the midpoint of  state the coordinates of *G* and *H* and label each point on your graph. Explain why | | | | | | | |  | | | |
| 1. Use  below, where points *D*, *E*, and *F* are midpoints of the sides, to answer the following questions. | | | | | | | | | | | |
|  | |  | | * 1. If  and , what is *DF*? | | | | | * 1. If  and , what is *AB*? | | |

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| 1. Find the values of *x* and *y* in the diagrams below: | | | |
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