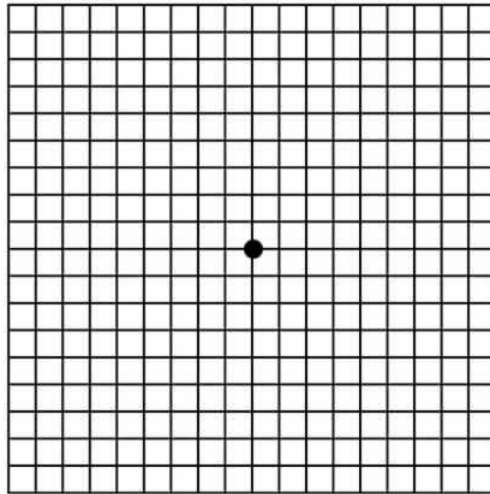


Name: _____
Date: _____
Class: _____

Geometry
Review
Graded Homework 13

Show all of your work for every problem. The numbers in the brackets are the points that each problem is worth. Multiple Choice Problems are worth 3.
NO WORK = ZERO CREDIT

1) [3] If triangle ABC is formed by A (1, 4), B (6, -2), and C (3, 8) find the equation of the perpendicular bisector of side AC.

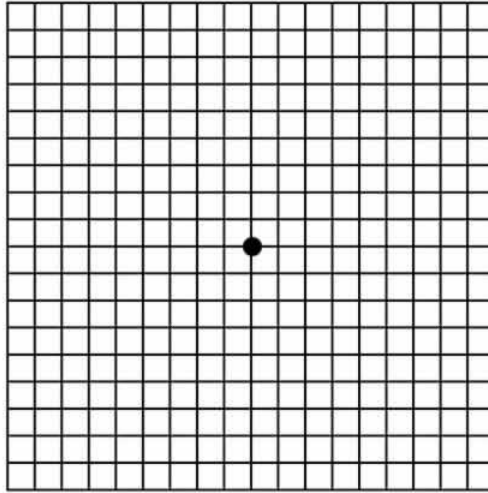


2) [3] In square ABCD the perimeter of the square is 80. Find the length of one of the diagonals.

3) [3] If two triangles are similar and they have corresponding sides that are 16 and 40, what would the perimeter of the larger triangle be if the perimeter of the smaller triangle is 56?

4) [3] If segment QP is bisected by line ZT (they intersect at point A) find QP if $QA = x + 5$ and $AP = 3x - 23$.

5) [4] Perform a dilation centered at $(2, 3)$ with scale factor 4 on the following points: C $(4, 5)$, D $(5, -2)$, and E $(1, 2)$.



6) [3] If isosceles triangle ABC has vertex angle A and base BC, find the perimeter of the triangle if $AB = 2x - 10$, $BC = x + 15$, and $AC = x + 11$.

7) [3] If a regular polygon has an interior angle of 160 degrees how many sides would it have?

8) [2] If a quadrilateral has diagonals that bisect each other and also has diagonals that bisect its corner angles what type of quadrilateral could this be?

9) [5] If a right triangle has a hypotenuse represented by $4x + 2$ and two legs that are represented by $3x + 6$ and $x + 4$, find the measurement of the 2 acute angles of this triangle.