

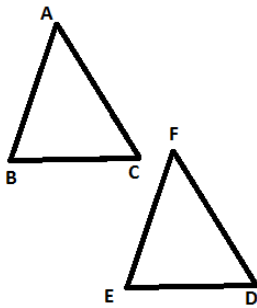
Name: _____
Date: _____
Class: _____

Geometry
Review
Graded Homework 8

Show all of your work for every problem. The numbers in the brackets are the points that each problem is worth.

2) [3] If a triangle has points $(-4, -5)$, $(6, 1)$, and $(2, 9)$ what type of triangle is it?

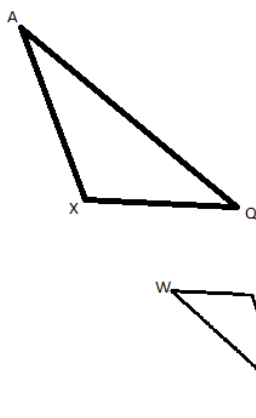
2) [3]



$$\triangle ABC \cong \triangle DEF$$

If $AB = BC$, $AB = 4x - 2$, $AC = 6x - 12$, and $EF = x^2 - 3x - 2$, find the perimeter of triangle DEF

3) [3]



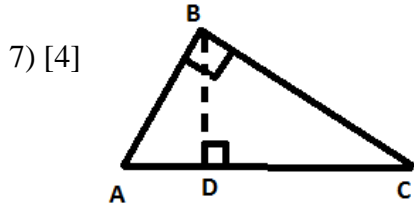
$$\triangle AXQ \sim \triangle BDW \text{ with a scale factor of } 12:5$$

If the perimeter of $\triangle BDW = x^2 - x + 4$ and the perimeter of $\triangle AXQ = 2x^2 - 4x + 48$ find the perimeter of both.

4) [5] If the hypotenuse of a right triangle is represented by $x + 14$ and the 2 legs are represented by $2x + 4$ and $x + 6$, while the area of this triangle is 96, find the measure of the largest acute angle of this triangle to the nearest tenth.

5) [3] If tree casts a shadow that is 15 feet long with an angle of depression of 56° how tall is the tree?

6) [3] Find the equation of line that passes through $(-2, -5)$ which is perpendicular to a 2nd line passing through $(-4, 7)$ and $(1, 2)$.



If $AB = 17$, $BC = 19$, find BD to the nearest tenth.

8) [3] Find the distance between these 2 points $(2a - 4, 3x + 2)$ and $(3a - 2, 5x + 3)$.

9) [3] Are the following triangles similar (why or why not)?

Triangle one has two sides measuring 18 and 24 with a 42° between them.

Triangle two has two sides measuring 30 and 40 with a 42° between them.