Geometry

Worksheet 4 – 2

Name: _____

Date: _____ Period: _____

_____

For problems 1-9, use rectangle QUAD. Treat each problem independently.

1) If $DP = 4x + 1$ and $PA = x + 13$, then $DP =$ _____

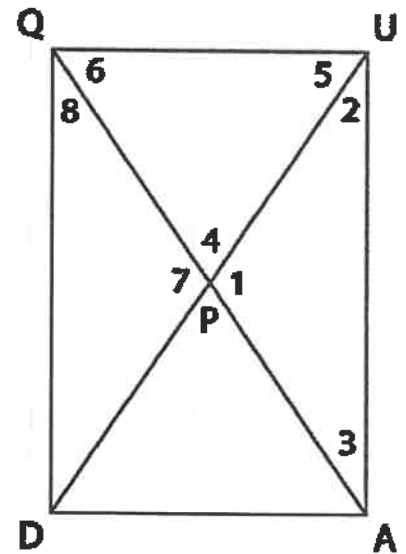2) If $DU = 5x - 4$ and $QP = 2x + 7$, then $DU =$ _____

3) If $m\angle 2 = 12x + 4$ and $m\angle 3 = 16x - 12$, then $m\angle 3 =$ _____

4) If $m\angle 5 = 12x - 3$ and $m\angle 6 = 10x + 9$, then $m\angle 4 =$ _____

5) If $m\angle 4 = 6x - 16$ and $m\angle 8 = 2x + 4$, then $m\angle 4 =$ _____

6) If $m\angle 3 = 18x - 8$ and $m\angle 6 = 70 - 4x$, then $m\angle 6 =$ _____

7) If $m\angle 2 = 32°$ and $DU = 12$, then $DA =$ _____, $AU =$ _____ and perimeter of $QUAD =$ _____

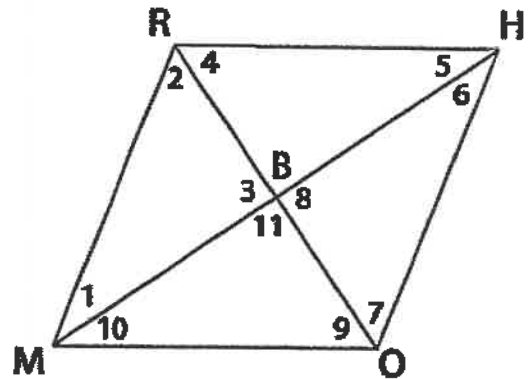RHOM is a rhombus. Find the unknown measures. (Treat each problem independently.)

11)If $OB = 2x + 1$ and $BR = 3x - 10$, then $OR = $ _____

12)If $RM = 18$, then $RH = $ _____, $OH = $ _____, $OM = $ _____

13)If $m\angle 2 = 48°$, then $m\angle MOH = $ _____

14)If $m\angle 7 = 61°$, then $m\angle RHO = $ _____

15)If $m\angle 3 = 8x - 6$, then $x = $ _____

ABCD is a square. Find the unknown measures. (Treat each problem independently.)

16)If $AE = 3x - 2$ and $EC = 2x + 3$, then $DB = $ _____

17)If $AD = 2x - 1$ and $BC = 5x - 13$, then

$AD = $ _____, $BC = $ _____, $AB = $ _____, $DC = $ _____