**Pre-Test on Quadrilaterals**

**Directions:** For problems 1-10, there are various quadrilaterals with given lengths and angles. Solve for the lengths and angles for which you are asked. Keep in mind that these figures are **NOT** necessarily drawn to scale. If a length or an angle that you are solving for is not a whole number, round to the nearest tenth.This assignment will not be graded, but it will be used to plan out future lessons on this topic. **Please show your work.**

1. **The figure below is a parallelogram. If AB = 45 and AD = 29, what are the length values for BC and DC?**

A

B

C

D

**BC = \_\_\_\_\_\_\_\_\_\_**

**DC = \_\_\_\_\_\_\_\_\_\_**

1. **The figure below is a rectangle with diagonals. What are the following angle measures?**

D

E

G

74

H

F

**mDEF = \_\_\_\_\_\_\_\_\_\_ m \_\_\_\_\_\_\_\_\_\_ m \_\_\_\_\_\_\_\_\_\_**

**m \_\_\_\_\_\_\_\_\_\_ m \_\_\_\_\_\_\_\_\_\_ m\_\_\_\_\_\_\_\_\_\_**

1. **The figure below is a rhombus with diagonals. If mADE = (8x-20) and the mwhat is the value of x?**

A

B

C

D

E

(8x-20)

(5x+1)

**x = \_\_\_\_\_\_\_\_\_\_**

1. **The figure below is a parallelogram with diagonals. If BD = 8x-6 and BE = 2x+9, what is the length of BD and BE?**

C

D

A

B

E

**BD = \_\_\_\_\_\_\_\_\_\_**

**BE = \_\_\_\_\_\_\_\_\_\_**

1. **The following figure is a square with diagonals. What are the following lengths and angle measurements?**

A

B

C

D

E

24

17

**m\_\_\_\_\_\_\_\_\_\_**

**m\_\_\_\_\_\_\_\_\_\_**

**CE = \_\_\_\_\_\_\_\_\_\_**

**BC = \_\_\_\_\_\_\_\_\_\_**

1. **The following figure is a parallelogram with diagonals. Given the following information, what is the m**

* **m**
* **m**
* **m)**
* **m = 115**

B

C

D

E

F

(6x – 10)

(4x + 5)

(4x + 5)

**m = 115**

**m**

1. **The figure below is a rectangle. Given that length AB = 3x + 4 and length DC = 8x – 6, what is the numerical length of AB?**

3x + 4

A

B

D

C

8x - 6

**AB = \_\_\_\_\_\_\_\_\_\_**

1. **The figure below is a rhombus with diagonals. Given that AE = X, AB = 10, and BE = 5, what is the value of the following lengths?**

A

B

C

D

10

E

X

5

5

**BC = \_\_\_\_\_\_\_\_\_\_ DE = \_\_\_\_\_\_\_\_\_\_ AE = \_\_\_\_\_\_\_\_\_\_ BD = \_\_\_\_\_\_\_\_\_\_**

1. **The figure below is a rectangle with diagonals. If m 54, what are the following angle measures?**

A

B

D

54

E

C

**m­­­\_\_\_\_\_\_\_\_\_\_ m \_\_\_\_\_\_\_\_\_\_ m\_\_\_\_\_\_\_\_\_\_**

**m\_\_\_\_\_\_\_\_\_\_ m\_\_\_\_\_\_\_\_\_\_ m\_\_\_\_\_\_\_\_\_\_**

1. **The figure below is a rhombus with diagonals. Given that m and m, what is the m**

A

B

C

D

E

(8x + 6)

(12x – 14)

**m**