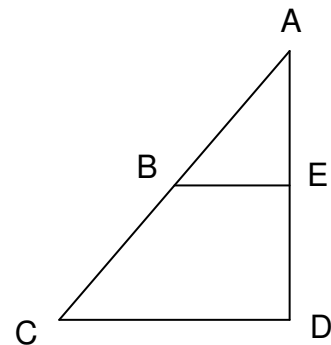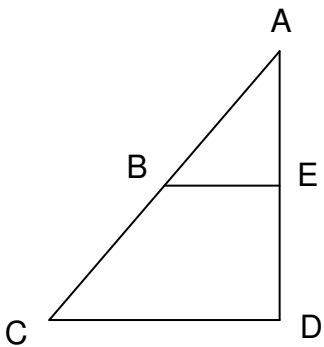REVIEW Ch 7.1-7.3

1. The ratio of the measures of the interior angles of a hexagon is 5:6:8:5:4:8. Find the largest angle.

2. Fill in the chart: The following holds true: $\dfrac{AB}{BC} = \dfrac{AE}{ED}$

_____

	AB	BC	AC	AE	ED	AD
a)	6			4	20	
b)			10		3	12

Solve the following proportions.

3. $\dfrac{15x}{42} = \dfrac{12}{7}$

4. $\dfrac{x+3}{5} = \dfrac{2x-3}{9}$
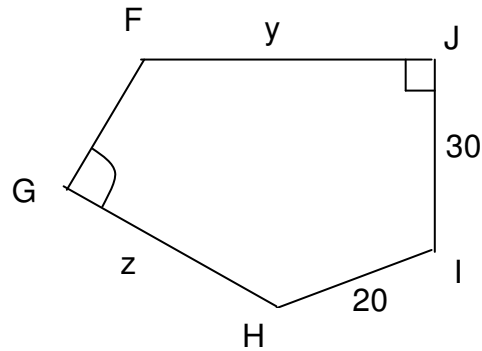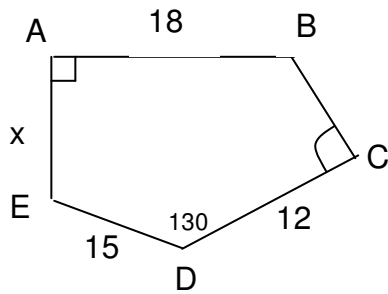
X = _____

X = _____

5. $\dfrac{x+8}{x-2} = \dfrac{x-1}{x+3}$

X = _____

6. If $\dfrac{x}{5} = \dfrac{5}{9}$ then $\dfrac{x+5}{5} =$

_____

7. An octagon has sides 3, 4, 6, 7, 10, 11, 11and 12. It is similar to a octagon of perimeter 24. Find the length of the longest side.   (8 points)

X = _____

8. Given the two similar figures, fill in the blanks.

a. Name the similar figures by filling in the blanks below – ORDER MATTERS!!

Pentagon ___ ___ ___ ___ ___ ~ Pentagon ___ ___ ___ ___ ___

b. Scale factor = _____

c. m ∠ H = _____

d. x = _____

e. y = _____

f. z = _____

g. Ratio of perimeters = _____

Answers

1.   160
2.   a) 6   30   36   4   20   24
       b) 7.5   2.5   10   9   3   12

3.   x=4 4/5
4.   x=42
5.   x= -11/7
6.   14/9
7.   4.5
8.   a) ABCDE similar to JFGHI
       b) ¾
       c) 130
       d) 22.5
       e)24
        f) 16
       g) ¾