Lesson Chapter 5 Review

Homework Answers

Pg 284 - #1-9, 11-14, 16-21, 24

Pg 285 - #1-10

Pg 284

1) a) If a polygon does not have 8 sides, then it is not an octagon.

   b) If a polygon is not an octagon, then it does not have 8 sides.

2) a) If it is not a leap year, then it is not an even-numbered year.

   b) If it is not an even-numbered year, then it is not a leap year.

3) a) If it is not snowing, then it is summer.

   b) If it is summer, then it is not snowing.

4) Answers will vary. Sample:
   $DE = \dfrac{1}{2} BC$ & $\overline{DE} \parallel \overline{BC}$ by $\triangle$ Midseg Thm

5) I and II

6) II and III

7) $\angle A, \angle C, \angle B$

8) $\angle B, \angle C, \angle A$

9) $\angle C, \angle B, \angle A$

11) $\overline{ST}, \overline{SR}, \overline{RT}$

12) $\overline{KV}, \overline{VM}, \overline{KM}$

13) 6.5

14) 12

16) 7; 27

17) $\dfrac{2}{3}; \dfrac{8}{3}$

18) (-2½, -1½)

19) (-2, 1)

20) (½, -4½)

21) circumcenter

24) A is on $\overrightarrow{CK}$, the $\angle$ bisector of $\angle SCD$

Pg 285

1) B

2) G

3) B

4) B; The sum of 2 sides of the $\triangle$ (145 & 165) is not greater then the 3rd side (320)

5) B: The $\triangle$ has the least perimeter, so 2 people have less room.

6) F; It is a midsegment of the $\triangle$ & is ½ the len of the 3rd side.

7) A midseg is $\parallel$ to the 3rd side.

8) C

9) G; Since only two sides of the $\triangle$ are needed, C has the least sum.

10) C