

6.3 HW Textbook p 228-231 #'s 1-9, 18-31, 40-47 omit 8

- ① a) Rhombus
- b) Rectangle
- c) Square

② 190 ft

③ 160 ft

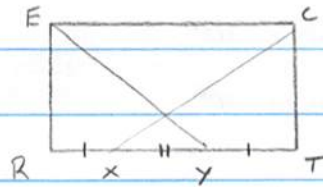
④ 190 ft

⑤ 380 ft

⑥ 32.3

⑦  $122^\circ$

⑧ omit



⑨ Statement

Reason

① RECT is Rectangle,  $\overline{RX} \cong \overline{TY}$

① given

②  $\overline{XY} \cong \overline{XY}$

② Reflexive Prop of  $\cong$

③  $RX = TY$ ,  $XY = XY$

③ Def of  $\cong$  Segments

④  $RX + XY = RT$

④ Segment + post

$$TY + XY = TX$$

⑤  $RX + XY = TY + XY$

⑤ ADD Prop of =

⑥  $RY = TX$

⑥ Substitution

⑦  $\overline{RY} \cong \overline{TX}$

⑦ Def of  $\cong$  Segments

⑧  $\angle R$  and  $\angle T$  are rt  $\angle$ 's

⑧ Def of Rectangle

⑨  $\angle R \cong \angle T$

⑨ rt  $\angle \cong$  theorem

⑩  $\overline{RE} \cong \overline{TC}$

⑩ Def of Rectangle

⑪  $\triangle REY \cong \triangle TCX$

⑪ SAS  $\cong$  Post

⑬  $m\angle 1 = 29^\circ$

$m\angle 4 = 29^\circ$

$m\angle 2 = 61^\circ$

$m\angle 5 = 90^\circ$

$m\angle 3 = 90^\circ$

(19)  $m\angle 1 = 54^\circ$        $m\angle 4 = 108^\circ$   
 $m\angle 2 = 36^\circ$        $m\angle 5 = 72^\circ$   
 $m\angle 3 = 54^\circ$

(20)  $m\angle 1 = 90^\circ$  ,  $m\angle 2-5 = 45^\circ$

(21)  $m\angle 1 = 126^\circ$        $m\angle 3 = 27^\circ$        $m\angle 5 = 27^\circ$   
 $m\angle 2 = 27^\circ$        $m\angle 4 = 126^\circ$

(22)  $m\angle 1 = 55^\circ$        $m\angle 3 = 55^\circ$        $m\angle 5 = 55^\circ$   
 $m\angle 2 = 55^\circ$        $m\angle 4 = 70^\circ$

(23)  $m\angle 1 = 64^\circ$        $m\angle 3 = 26^\circ$        $m\angle 5 = 64^\circ$   
 $m\angle 2 = 64^\circ$        $m\angle 4 = 90^\circ$

(24) A

(25) S

(26) S

(27) S

(28) A

(29) A

(30) A

(31) S

40)  $P = 13.66 \text{ cm}$      $A = 10.83 \text{ cm}^2$

41)  $p = 28\sqrt{2} \text{ in}$      $A = 98 \text{ in}^2$

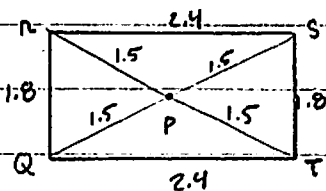
42)  $p = 20 \text{ cm}$      $A = 24 \text{ cm}^2$

43) Answers may vary

44) List all Properties of  $\square$ , Rect., Rhombus

45) D

46)



7.2

47) H