

Extra Study Guide

1. congruent sides
perpendicular diagonals
angle bisectors

2. $\angle x = 90$

$$x = 15$$

$$y = 180 - 90 - 15 = 75^\circ$$

3. $x = 15^\circ$

$$y = 53^\circ$$

$$z = 112^\circ$$

4. diagonals are bisected

5. $2y = x + 1$

$$2y - 1 = x$$

$$2(5) - 1 = x$$

$$10 - 1 = x$$

$$9 = x$$

$$3x - 8 = 3y + 4$$

$$3(2y - 1) - 8 = 3y + 4$$

$$6y - 3 - 8 = 3y + 4$$

$$6y - 11 = 3y + 4$$

$$3y = 15$$

$$y = 5$$

6. a. supplementary

