

Answer Key for Practice Worksheet 5-1 and 5-2

1) $QR = 5$ opp. sides are $\cong$

2) $PX = 10$ diag. bisect each other

3) $m\angle QRS = 125^\circ$ opp. $\angle$'s are $\cong$

$m\angle PQR = m\angle PSR = 55^\circ$ opp. sides are $\parallel$

4) $m\angle 3 = 27^\circ$ alt. int. $\angle$'s are $\cong$

$m\angle PSR = 57^\circ$ opp. $\angle$'s are $\cong$

5) $a = 12$ $b = 7$ opp. sides are $\cong$

$x = 112$ opp. $\angle$'s are $\cong$

$y = 68$ opp. sides are $\parallel$

6) $a = 6$ $b = 5$ opp. sides are $\cong$

$x = 60$ alt. int. $\angle$'s are $\cong$

$y = 74$ opp. $\angle$'s are $\cong$

7) $a = 10$ diag. bisect each other

$b = 10$ opp sides are $\cong$

$x = y = 59$ isosceles triangle

8) $a = 20$ $b = 14$ opp. sides are $\cong$

$x = 17$ opp. sides are $\parallel$

$y = 14$ alt. int. $\angle$'s are $\cong$

9) $x = 10$ opp. sides are $\cong$

10) $x = 4$ diag. bisect each other

11) $x = 22$ alt. int. $\angle$'s are $\cong$

12) $x = 15$ opp. $\angle$'s are $\cong$

13) $x = 64$ opp. sides are $\parallel$

14) Theorem 5-5

15) none

16) Theorem 5-7

17) Theorem 5-6