

114-115 #4, 7-9, 12-16, 23, 24

- 4. $30^\circ, 60^\circ, 90^\circ$
- 7. $25^\circ, 45^\circ, 110^\circ$
- 8. $44^\circ, 48^\circ, 88^\circ$
- 9. $48^\circ, 59^\circ, 73^\circ$
- 12. 128°
- 13. 140°
- 14. 108°
- 15. The measure of the exterior angle is equal to the sum of the measures of the two nonadjacent interior angles. The sum of all three angles is not 180° ;
$$(2x - 12) = x + 30$$
$$x = 42$$

The exterior angle is

$$(2(42) - 12)^\circ = 72^\circ.$$
- 16. See *Taking Math Deeper*.
- 23. $x = -4$
- 24. $y = -1$