

Geometry Worksheet 10.1a Solutions

1. $x = 9, y = 15$
2. $m = 5, n = 12$
3. 61°
4. 60°
5. $d = 126, z = 28$
6. $x = 55^\circ, y = 55^\circ, z = 125^\circ$
7. $a = 3, b = 10$
8. $m = 4, n = 3$
9. $x = 38^\circ, y = 38^\circ, z = 142^\circ$
10. $\angle P = 102^\circ, \angle Q = 78^\circ, \angle S = 78^\circ, \angle R = 102^\circ$
11. $\left(1, \frac{5}{2}\right)$
12.
 - a. $\overline{BC} \cong \overline{AC}$
 - b. $\angle DAC$
 - c. $\angle DAC$
 - d. 47°
 - e. 47°
 - f. 86°
13. $x = -0.5y + 9.75$
14. $QR = 97 \text{ ft}$
15. In a parallelogram, adjacent angles are supplementary, not congruent.
Therefore, $\angle A = 130^\circ$
16.
 - a. 3 in
 - b. 110°
 - c. $\angle P$ decreases the same degree measure
 - d. The length of QS increases