

Chapter 9 Test

1. $m(\overline{AB}) = 4$ units
2. B is the vertex.
3. true
4. false, (90° is a right angle)
5. false, (180° is a straight angle)
6. true
7. $x = 67 - 17$
 $x = 50$
8. $y = 180 - 40$
 $y = 140$
9. $5y - 20 = 3y + 4$
 $5y - 20 - 3y = 3y + 4 - 3y$
 $2y - 20 = 4$
 $2y - 20 + 20 = 4 + 20$
 $2y = 24$
 $\frac{2y}{2} = \frac{24}{2}$
 $y = 12$
10. CALLIGRAPHY
 $x = 90 - 45$
 $x = 45$
11. $x =$ complement of angle
 $x = 90 - 67$
 $x = 23^\circ$
12. $x =$ supplement of angle
 $x = 180 - 117$
 $x = 63^\circ$
13. $m(\angle 1) = 70^\circ$
14. $m(\angle 2) = 110^\circ$
15. $m(\angle 3) = 70^\circ$
16. $2x + 30 + 70 = 180$
 $2x + 100 = 180$
 $2x + 100 - 100 = 180 - 100$
 $2x = 80$
 $\frac{2x}{2} = \frac{80}{2}$
 $x = 40$

