

Geometry 8.4 (updated. 9/30/14)

1. $x\sqrt{2}$
2. $x\sqrt{3}, 2x$
3. $15\sqrt{2}$
4. $11\sqrt{2}$
5. 8
6. $90\sqrt{2}$ or 127.3 ft.
7. $a = 2\sqrt{2}, b = 2$
8. $c = 6\sqrt{2}, d = 12$
9. $e = f = 13\sqrt{2}$
10. $g = 10\sqrt{3}, h = 20$
11. $k = 8, j = 8\sqrt{3}$
12. $x = 11\sqrt{3}, y = 22\sqrt{3}$
13. $m = 9, n = 18$
14. $q = 14\sqrt{6}, p = 28\sqrt{3}$
15. $s = 9, t = 3\sqrt{3}$
16. $x = w = 9\sqrt{2}$
17. $a = 9\sqrt{3}, b = 18\sqrt{3}$
18. $p = 6\sqrt{15}, q = 6\sqrt{5}$
19. Yes, it's a 30-60-90 triangle.
20. No, it is not even a right triangle.
21. $16 + 6\sqrt{3}$
22. $8 + 8\sqrt{3}$
23. $x : x\sqrt{3}$
24. $4\sqrt{2}$ in
25. $\frac{3}{2}\sqrt{3}$ in
26. $\frac{25}{4}\sqrt{3}$ ft²
27. $\frac{27}{2}\sqrt{3}$ in²
28. 12
29. 3960 ft
30. $\frac{5}{2}\sqrt{3}$