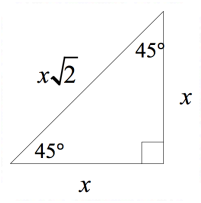
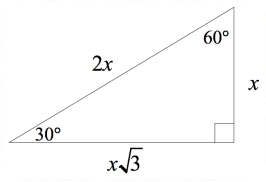
SM2H 8.4 Special Right Triangles Key

1.



2.



3. $x = 24$, $y = 12\sqrt{3}$

4. $x = 10\sqrt{2}$, $y = 10$

5. $x = \sqrt{5}$, $y = \sqrt{5}$

6. $x = 4$, $y = 2\sqrt{2}$

7. $x = 6$, $y = 2\sqrt{3}$

8. $x = 5\sqrt{3}$, $y = 5$

9. ☺

10. ☺

11. $x = 6\sqrt{2}$, $y = 6\sqrt{2}$

12. $x = 6\sqrt{2}$, $y = 3\sqrt{6}$

13. $x = 5\sqrt{2}$, $y = 5\sqrt{2}$

14. $x = 2$, $y = 2$

15. $x = 21$, $y = 7\sqrt{3}$

16. $x = \frac{16\sqrt{3}}{3}$, $y = \frac{8\sqrt{3}}{3}$

17. $x = 6$, $y = 6\sqrt{3}$

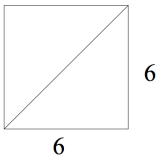
18. $x = 10\sqrt{2}$, $y = 45°$

19. $x = 6\sqrt{2}$, $y = 6\sqrt{2}$

20. $x = 6\sqrt{2}$, $y = 3\sqrt{6}$

21. $\theta = 60°$
22. $\theta = 315°$
23. $\theta = 30°$
24. $\theta = 225°$
25. $\theta = 60°$
26. $\theta = 135°$
27. $90\sqrt{2}$ feet
28. $50\sqrt{2}$ feet
29.

a)



b) $6\sqrt{2}$ feet

c) $12 + 6\sqrt{2}$ feet ≈ 20.49 feet