

SM3 6.4 odd answers

1. $\frac{\sqrt{3}}{3}$

3. $\frac{\sqrt{5}}{10}$

5. $\frac{\sqrt{6}}{3}$

7. $\sqrt{2}$

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

11. $x = 4\sqrt{3}, y = 4\sqrt{3}$

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

15. $m = 10\sqrt{3}, n = 5\sqrt{6}$

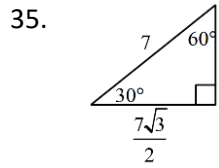
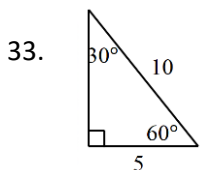
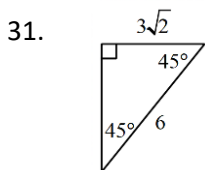
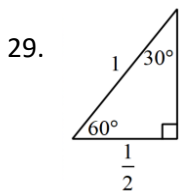
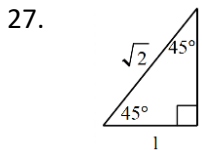
17. $m = 2, n = \frac{2\sqrt{3}}{3}$

19. $a = 6\sqrt{3}, b = 9$

21. $x = 8, y = 8$

23. $a = 18\sqrt{5}, b = 6\sqrt{15}$

25. $m = \frac{7\sqrt{6}}{2}, n = \frac{7\sqrt{6}}{2},$



37. $-\frac{\sqrt{2}}{2}$

39. -2

41. -1

43. 1

45. $\theta = 210^\circ, \frac{7\pi}{6}$ and

$\theta = 150^\circ, \frac{5\pi}{6}$

47. $\theta = 210^\circ, \frac{7\pi}{6}$ and

$\theta = 330^\circ, \frac{11\pi}{6}$

49. $\theta = 60^\circ, \frac{\pi}{3}$ and $\theta = 300^\circ, \frac{5\pi}{3}$

51. $\theta = 45^\circ, \frac{\pi}{4}$ and $\theta = 315^\circ, \frac{7\pi}{4}$

53. ≈ 0.9455

55. ≈ 1.5243

57. ≈ 2.6131

59. $m\angle B = 70^\circ, b \approx 33.8,$

$c \approx 36.0$