

SECTION 7.4

2. $\frac{24}{25}, \frac{7}{25}, \frac{24}{7}$

4. $-\frac{24}{25}, -\frac{7}{25}, \frac{24}{7}$

6. $-\frac{\sqrt{10}}{10}, \frac{3\sqrt{10}}{10}, -\frac{1}{3}$

8. $\frac{\sqrt{10}}{4}, -\frac{\sqrt{6}}{4}, -\frac{\sqrt{15}}{3}$

10. (a) $-\frac{1}{2}\sqrt{2+\sqrt{3}},$

(b) $\frac{1}{2}\sqrt{2-\sqrt{2}},$ (c) $\sqrt{2}-1$

50. $\theta \approx 24.30^\circ$ or 65.70°

SECTION 8.2

12. $\alpha \approx 41.6^\circ, \beta \approx 85.5^\circ, \gamma \approx 52.9^\circ$

22. ≈ 271.7 feet

24. $\approx 60.05^\circ$

26. ≈ 114.7 centimeters, ≈ 163.8 centimeters