

SM3 6.6 odd answers

1. $x = 10$

3. $\sin \theta = \frac{7\sqrt{58}}{58}$

5. $\sin \theta = \frac{4}{5}, \cos \theta = \frac{3}{5}, \tan \theta = \frac{4}{3}$

$\csc \theta = \frac{5}{4}, \sec \theta = \frac{5}{3}, \cot \theta = \frac{3}{4}$

7. $\sin \theta = -\frac{2\sqrt{13}}{13}, \cos \theta = -\frac{3\sqrt{13}}{13}, \tan \theta = \frac{2}{3}$

$\csc \theta = -\frac{\sqrt{13}}{2}, \sec \theta = -\frac{\sqrt{13}}{3}, \cot \theta = \frac{3}{2}$

9. $\theta = 28.1^\circ$

11. $(4, 3)$ and $(-4, 3)$

13. $(-6, \sqrt{85})$ and $(-6, -\sqrt{85})$

15. $(\sqrt{11}, -5)$ and $(-\sqrt{11}, -5)$

17. $(3, 4)$ and $(3, -4)$

53.1° and 306.9°

19. $(5, -12)$ and $(-5, -12)$

292.6° and 247.4°

21. $(2\sqrt{14}, 5)$ and $(-2\sqrt{14}, 5)$

33.7° and 146.3°

23. $\sin^{-1}\left(\frac{t-2}{-6}\right) = m$