SM3 8.6 odd answers

1. $x = 10$

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

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

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

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

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

9. $\theta = 28.1°$

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

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

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

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

    $53.1°$ and $306.9°$

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

    $292.6°$ and $247.4°$

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

    $33.7°$ and $146.3°$

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