

SM3 7.2 answers

$$\begin{aligned} 1) \sin\theta &= \frac{12}{13} \\ \cos\theta &= \frac{5}{13} \\ \tan\theta &= \frac{12}{5} \\ \csc\theta &= \frac{13}{12} \\ \sec\theta &= \frac{13}{5} \\ \cot\theta &= \frac{5}{12} \end{aligned}$$

3. ≈ 0.7314

5. ≈ 0.9063

7. ≈ 1.1547

9. $\approx 56.3^\circ$

11. $\approx 26.4^\circ$

13. ≈ 19.8

15. ≈ 7.0

17. $m\angle A = 58^\circ$ $a = 2.7$

$m\angle B = 32^\circ$ $b = 1.7$

$m\angle C = 90^\circ$ $c = 3.2$

19. 3.5 m

21. 23.1 ft

23. $(3n + 5)(n + 4)$