

Right Triangle Trigonometry

1. $\tan 43^\circ = \frac{x}{12'}$, $x \approx 11.2$

2. $\sin 35^\circ = \frac{x}{20'}$, $x \approx 11.5$

3. $\tan 37^\circ = \frac{2.1}{x}$, $x \approx 2.8$

4. $\cos 41^\circ = \frac{x}{11'}$, $x \approx 8.3$

5. $\tan x = \frac{7}{11}$, $x \approx 32^\circ$

6. $\cos x = \frac{.15}{.37}$, $x \approx 66^\circ$

7. $\cos x = \frac{3}{3\sqrt{5}}$, $x \approx 63^\circ$

8. $\sin x = \frac{5}{14}$, $x \approx 21^\circ$

9. $\theta \approx 74.1^\circ$

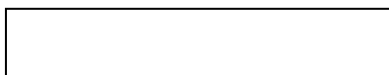
10. $x \approx 0.5$

11. $x \approx 0.9$

12. $\theta = 30^\circ$

13. $\tan 58^\circ = \frac{50}{x}$, $x \approx 31.2 \text{ yd}$

14. $\tan 25^\circ = \frac{x}{250}$, $x \approx 116.6 \text{ ft}$



19. $\tan w = \frac{5}{3}$, $w = 59^\circ$

$\tan x = \frac{5}{7}$, $x \approx 36^\circ$

20. $\sin 30^\circ = \frac{w}{6}$, $w = 3$

$\cos x = \frac{3}{4}$, $x = 41^\circ$

21. $\sin 42^\circ = \frac{w}{102}$, $w = 68$

$\cos 42^\circ = \frac{a}{102}$, $a = 76$ $x = 152$

22. $\sin 10.4^\circ = \frac{195}{x}$, $x \approx 1080 \text{ ft}$

23. $\tan 18^\circ = \frac{250}{x}$, $x \approx 769 \text{ ft}$

24. $\tan x = \frac{282}{137}$, $x \approx 64^\circ$

25. $\tan x = \frac{1}{12}$, $x \approx 4.8^\circ$

26. $\tan 35^\circ = \frac{x}{30}$, $x \approx 21 + 5 \approx 26 \text{ ft}$