

HONORS TRIGONOMETRY

CHAPTER 9

Triangle Trigonometry

ASSIGNMENTS

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ANSWERS

Section 9.2

14. $A = ab \sin$ 36. 1.07

Section 9.3

14. No triangle possible.

16. $D = 19.5$, $E = 40.5$

18. 11.8 km 20. $3\sqrt{5}$

22a. 164 m b. $103\overline{m}$

28b. B is the midpoint of \overline{OD} .

Section 9.4

14. 6.40 cm 16. 70.7

18a. 10,800 feet b. 10.4°

22. $KM=7$, $JL = \frac{50}{7}$

Mixed Trig Exercises

10. $\cos A = 0.6$ and $\sin A = 0.8$.

12. 272 ft/min, 2.69 knots

14a. $20\sqrt{3}$ b. $\sqrt{129}$ and 7

22. \$41.63

24a. 219.2 miles b. 219.0 miles

40. 26.8 km