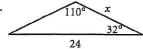


Practice Masters Level B

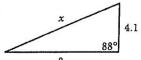
10.5 The Law of Cosines

In Exercises 1 and 2, which rule should you use, the law of sines or the law of cosines, to find each indicated measurement? Explain your reasoning.

1.



AAS -> Law of Sines



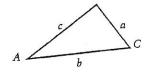
In Exercises 3-5, find the indicated measures. Round your answers to the nearest tenth.

3. m \angle C = 52°, b = 10.3, a = 6.1, c = ?

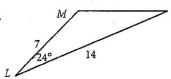


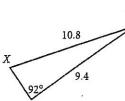
4. m $\angle C = 68^{\circ}$, m $\angle A = 28^{\circ}$, b = 24, c = ? 22.35. a = 3.2, b = 6.5 c = 5.0, m $\angle C = ?$ 49.6°





In Exercises 6-9, use the law of cosines and/or the law of sines to solve each triangle. Round answers to the nearest tenth.





10.5

10. Two trains depart from the same station on tracks that form a 65° angle. Train A leaves at noon and travels at an average speed of 52 miles per hour. Train B leaves at 1 P.M. and travels at an average speed of 60 miles per hour. How far apart are the trains at 3 P.M.? -

