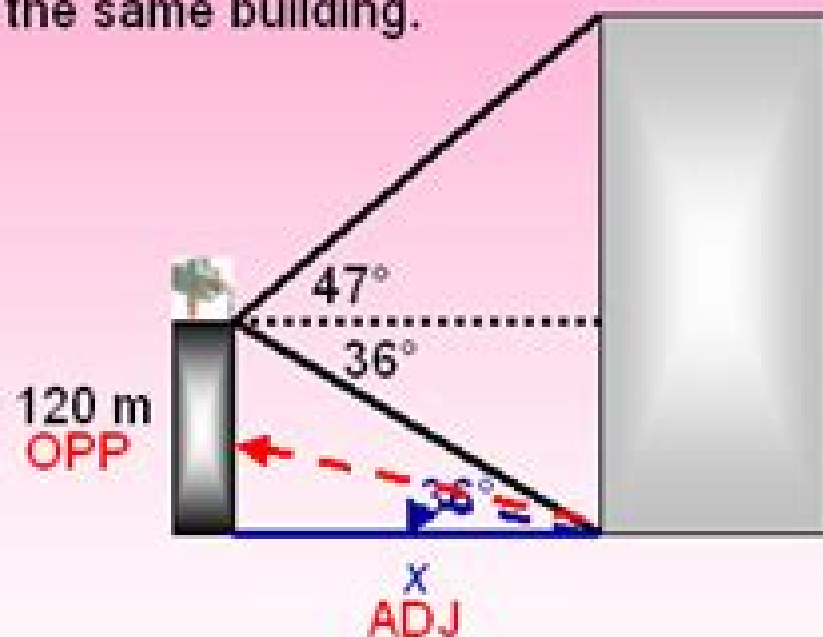


# TRIGONOMETRIC RATIOS: WORD PROBLEMS

## EXAMPLE 3

A video camera is mounted on the top of a 120 m tall building. When the camera tilts down, it views the bottom of another building, with an *angle of depression* of  $36^\circ$ . If it tilts up  $47^\circ$  with the horizontal, it can view the top of the same building.



(a) How far apart are the two buildings? (to the nearest metre)

Let  $x$  represent the distance between the two buildings

$$\tan 36^\circ = \frac{OPP}{ADJ}$$

$$\tan 36^\circ = \frac{120}{x}$$

$$x \tan 36^\circ = \cancel{x} \left( \frac{120}{\cancel{x}} \right)$$

$$\frac{x \cancel{\tan 36^\circ}}{\cancel{\tan 36^\circ}} = \frac{120}{\tan 36^\circ}$$

$$x = \frac{120}{\tan 36^\circ}$$

$$x = \frac{120}{0.7265}$$

$$\boxed{x = 165}$$

The buildings are **165 metres** apart

# Trigonometric Ratio Word Problems With Pictures

**International Correspondence Schools**



## Trigonometric Ratio Word Problems With Pictures:

HOW TO SOLVE WORD PROBLEMS IN MATHEMATICS (EBOOK) David S. Wayne, 2001-01-03 Presents tools for mastering math word problems including step by step guidance examples and problems with explained answers A Problem Solving Approach to Mathematics for Elementary School Teachers Rick Billstein, Shlomo Libeskind, Johnny W. Lott, 2004 This best selling text emphasizes solid mathematics content problem solving skills and analytical techniques The eighth edition focuses on the National Council of Teachers of Mathematics NCTM Principles and Standards 2000 The text allows for a variety of approaches to teaching encourages discussion and collaboration among students and with their instructors allows for the integration of projects into the curriculum and promotes discovery and active learning Students using this text will receive solid preparation in mathematics develop confidence in their math skills and benefit from teaching and learning techniques that really work Technical Mathematics with Calculus Paul A. Calter, Michael A. Calter, 2010-12-28 This text is an unbound binder ready edition This text is designed to provide a mathematically rigorous comprehensive coverage of topics and applications while still being accessible to students Calter Calter focuses on developing students critical thinking skills as well as improving their proficiency in a broad range of technical math topics such as algebra linear equations functions and integrals Using abundant examples and graphics throughout the text this edition provides several features to help students visualize problems and better understand the concepts Calter Calter has been praised for its real life and engineering oriented applications The sixth edition of Technical Mathematics has added back in popular topics including statistics and line graphing in order to provide a comprehensive coverage of topics and applications everything the technical student may need is included with the emphasis always on clarity and practical applications WileyPLUS an online teaching and learning environment that integrates the entire digital text will be available with this edition WileyPLUS sold separately from text **Texas School Journal**, 1906 Arithmetic, mensuration, elementary algebra and trigonometric functions, mechanics, hydraulics and hydraulic machinery International Correspondence Schools, 1902 **A Treatise on Chemistry and Chemical Analysis: Arithmetic, elementary algebra, and trigonometric functions, physics, theoretical chemistry**, 1900 **Arithmetic, mensuration, elementary algebra and trigonometric functions, elementary mechanics, principles of electricity and magnetism, electrical measurements, batteries** International Correspondence Schools, 1901 Arithmetic, mensuration, elementary algebra, and trigonometric functions, elementary mechanics, principles of electricity and magnetism, electrical measurements, batteries International Correspondence Schools, 1900 **Arithmetic, mensuration, elementary algebra, and trigonometric functions, elementary mechanics, principles of electricity and magnetism, electrical measurements, batteries**, 1900 **Bulletin** Indiana. Department of Public Instruction, 1943 **High School Mathematics** Indiana. Department of Public Instruction. High School Mathematics Course of Study Committee, Indiana. Dept. of Education. High School

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 Thomas J. McHale,Paul T. Witzke,1984

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Trigonometric Ratio Word Problems With Pictures**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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