

Angle of Elevation & Depression Trig Worksheet

1. Brian's kite is flying above a field at the end of 65 m of string. If the angle of elevation to the kite measures 70° , how high is the kite above Brian's head?



$$\sin 70^\circ = \frac{x}{65}$$

$$x \approx 61.08m$$

2. From an airplane at an altitude of 1200 m, the angle of depression to a building on the ground measures 28° . Find the distance from the plane to the building.



$$\sin 28^\circ = \frac{1200}{x}$$

$$x = \frac{1200}{\sin 28^\circ} \rightarrow 2556.07m$$

3. From a point on the ground 12 ft from the base of a flagpole, the angle of elevation of the top of the pole measures 53° . How tall is the flagpole?



$$\tan 53^\circ = \frac{x}{12}$$

$$x \approx 15.92ft$$

4. From a plane flying due east at 265 m above sea level, the angles of depression of two ships sailing due east measure 35° and 25° . How far apart are the ships?



$$\tan 35^\circ = \frac{265}{x}$$

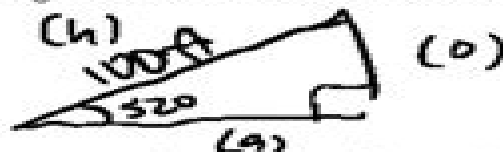
$$x = \frac{265}{\tan 35^\circ} \approx 398.46$$

$$\tan 25^\circ = \frac{265}{x}$$

$$x = \frac{265}{\tan 25^\circ} \approx 568.2$$

$$568.2 - 398.46 = 169.74m$$

5. A man flies a kite and lets out 100 feet of string. The angle of elevation of the string is 52° . How high off the ground is the kite? How far away is the man from the spot directly under the kite?



$$\sin 52^\circ = \frac{x}{100}$$

$$x \approx 78.8ft$$

$$\cos 52^\circ = \frac{x}{100}$$

$$x \approx 61.5ft$$

6. From the top of a vertical cliff 40 m high, the angle of depression of an object that is level with the base of the cliff is 34° . How far is the object from the base of the cliff?



$$\tan 34^\circ = \frac{40}{x}$$

$$x = \frac{40}{\tan 34^\circ} \rightarrow x \approx 59.3m$$

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not exam specific yet it provides thorough coverage of the trigonometry skills required in most math tests About the Authors Carolyn Wheeler Hawthorne NJ teaches middle school and upper school mathematics at the Nightingale Bamford School in New York City Educated at Marymount Manhattan College and the University of Massachusetts Amherst she has taught math and computer technology for 30 years to students from preschool through college She is a member of National Council of Teachers of Mathematics NCTM and the Association of Teachers in Independent Schools *Mathematics in Action* Doug Brown, J. L. Hodge, Robin D. Howat, J. Hunter, E. C. K. Mullan, K. Nisbet, 1996-11 Written specifically for Standard Grade though appropriate for other UK Curricula the series expertly covers all the areas students will need for complete success Fully supported by a comprehensive teacher file Home Study, 1898 **Home Study Magazine**, 1898 **New York Math: Math A**, 2000 *Study Guide with Practice Tests for Gustafson and Frisk's Plane Trigonometry* Jerry L. Frang, 1985 A *Treatise on Surveying, Comprising the Theory and the Practice* William Mitchell Gillespie, 1897 Transactions and Proceedings of the Royal Society of New Zealand Royal Society of New Zealand, 1879 Includes proceedings of member institutes of the Society and of the Society's Science Congress through v 84 1956 57 Transactions and Proceedings of the New Zealand Institute New Zealand Institute, 1879 Includes proceedings of member institutes of the Society and of the Society's Science Congress The Principles and Practice of Modern Artillery Charles Henry Owen, 1871 Covers various aspects of artillery gunnery and ordnance Science and Industry, 1898 *Transactions and Proceedings of the New Zealand Institute*, 1879 **Transactions and Proceedings** Royal Society of New Zealand, 1879 **School Library Journal**, 1986 **Transactions** Royal Society of New Zealand, 1879 **The Principles and Practice of Modern Artillery; Including Artillery Material, Gunnery, and Organization and Use of Artillery in Warfare ... With ... Illustrations** Charles Henry OWEN (Major-General.), 1871

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