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Trigonometry Applications Problems

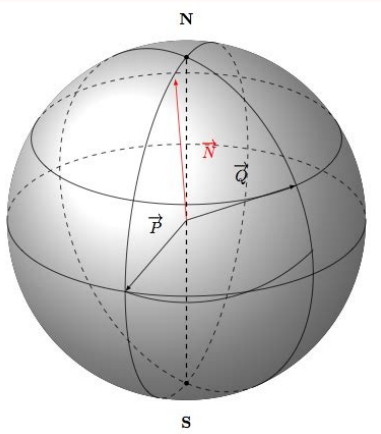
For each problem read the question at least twice before drawing a large clear diagram. Identify the right-angles triangle and do the trigonometry. Check that you have answered the question. Answer correct to the nearest whole number.

- C. A rectangle is 100 metres long and 50 metres wide. Find the acute angle between the diagonals.
- E. A marksman aims at a target bullseye 60 metres away but just before he pulls the trigger he is distracted and swings the rifle and angle of a quarter of a degree. By how many centimetres will the bullet miss the bullseye?
- I. A gable roof (isosceles triangle-shaped) has a vertical height of 2.1 metres and the ceiling is 10.9 metres from one side to the other. Find the pitch (angle) of the roof.
- P. A searchlight shines on a flying saucer vertically above is. Another searchlight shines on the saucer but it's beam makes an angle of 15° to the vertical. The lights are 2 kilometers apart. Find the altitude of the flying saucer, in metres.
- R. A line on a graph joins the origin to the point (6,15). What angle does the line make with the x axis?
- T. A regular octagon with sides of 10 metres fits exactly inside a circle. Find the radius of the circle.
- U. A child sits on a swing which is not moving. The rope is 400 centimetres long and the child's seat is 50 centimetres above the ground. The child swings and at the extremity of her movement the rope makes an angle of 41° with the vertical. How far above the ground is her seat now?

Illustration in reverse

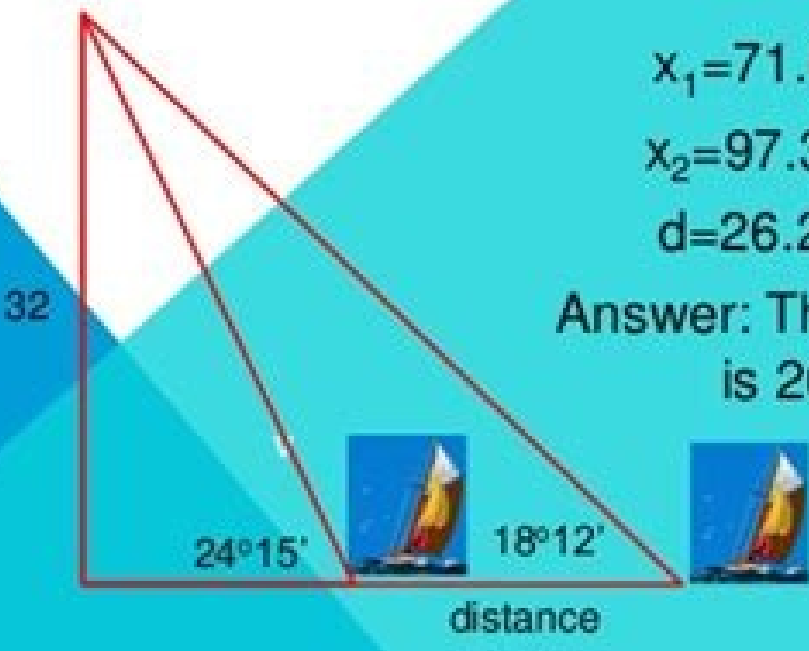
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Real-Life Problem on right triangle

The angle of depression of boat A from the top of a cliff which is 32 m high is 24°15'. The angle of depression of boat B from the same point is 18°12'. Find the distance between the two boats.



$x_1=71.04\text{m}$
 $x_2=97.33\text{m}$
 $d=26.29\text{m}$

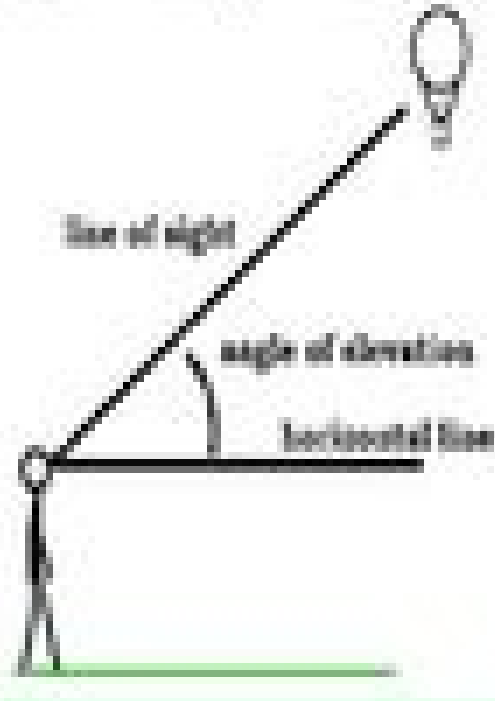
Answer: The distance of two boats is 26.29m

Angles of Elevation and Depression

Notes and Practice

Angle of Elevation

The angle between the horizontal and the line of sight to an object when looking up



Angle of Depression

The angle between the horizontal and the line of sight to an object when looking down



You will usually be given two of the following three pieces of necessary information needed to set up your problem (you will solve a Trig Ratio to find the third):

- How far away from an object the viewer is
- What the altitude is from the ground to the object
- What the angle is between the horizontal and the line of sight (i.e. the angle of elevation or depression)

Procedure:

Step 1: Draw a picture of the situation

Step 2: Label ALL of the information on your picture

Step 3: Determine based on the angle and sides that you have labeled which trig ratio you are using

Step 4: Set up and solve your trig ratio

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Trigonometry Word Problems

(Solutions)

1) One diagonal of a rhombus makes an angle of 29° with a side of the rhombus. If each side of the rhombus has a length of 7.2 , find the lengths of the diagonals.

Draw a sketch:



Solve:



2) An observer on a cliff 1200 feet above sea level sights two ships due East. The angles of depression to the ships are 45° and 35° . What is the distance between the ships?

Draw a sketch:



Solve:



Note: Angle of depression is measured "going down".



angle of depression is increasing as the lines go down



angle of elevation = angle of depression (geometry theorem: if parallel lines are cut by a transversal, then the opposite interior angles are congruent.)

Narrow-angle glaucoma can be either acute or chronic. This type of health event is a medical emergency and requires immediate care. Did you notice angle 6 corresponds to angle 2? Approximately 15.7 million people suffer from primary angle-closure glaucoma. They are a pair of corresponding angles. You learn that corresponding angles are not congruent. They are just corresponding by location. Looking at our BOLD MATH figure again, and thinking of the Corresponding Angles Theorem, if you know that angle 1 measures 123° , what other angle must have the same measure? No symptoms are present until eye damage is severe or an acute attack takes place. Symptoms of Narrow-Angle Glaucoma Chronic angle-closure glaucoma will not produce symptoms until the condition has reached a certain level of severity. The angles to either side of our 57° angle – the adjacent angles – are obtuse. You can use the Corresponding Angles Theorem even without a drawing. Can you possibly draw parallel lines with a transversal that creates a pair of corresponding angles, each measuring 181° ? Angles that are on the opposite side of the transversal are called alternate angles. If you do not receive proper care, especially after an acute attack, your risk of blindness increases. Can stress cause narrow-angle glaucoma? If a person experiences an acute attack, some early symptoms may occur. For example, people with the following symptoms should speak with an ophthalmologist immediately: Sudden blurred visionSevere eye painHeadacheNauseaVomiting Rainbow-colored rings or halos around lights Glaucoma is a leading cause of blindness in people aged 60 and up.5 The Mayo Clinic How Common is this Form of Glaucoma? This form of glaucoma affects many people worldwide. If you are given a figure similar to our figure below, but with only two angles labeled, can you determine anything by it? You cannot possibly draw parallel lines with a transversal that creates a pair of corresponding angles, each measuring 181° . Several tests that may take place during examination include: Measuring intraocular pressure (tonometry)Assess optic nerve damage (dilated eye examination and imaging tests)Examine areas of vision loss (visual field test)Measure corneal thickness (pachymetry)Examine the drainage angle (gonioscopy) Tips for Managing Narrow-Angle Glaucoma To prevent the loss of vision caused by narrow-angle glaucoma, you should follow the steps prescribed by your eye doctor. Corresponding angles in plane geometry are created when transversals cross two lines. Eye doctors may also use the following terms to describe this condition: Ciliary block glaucomaAqueous misdirection syndromeDirect lens-block glaucoma Fellow Eye Attack A fellow eye refers to the other eye where the condition was not present initially. Because fluid cannot move around in the eye properly, pressure builds up, and the risk of permanent vision loss increases. Narrow-angle glaucoma is just one type of glaucoma. Narrow-Angle Glaucoma There are different forms of glaucoma. With transversal cutting across two lines forming non-congruent corresponding angles, you know that the two lines are not parallel. However, more research is needed. You should integrate mindfulness and relaxation techniques to lower stress levels. Posterior pressure on the iris Mature cataracts, lens dislocation, intraocular tumors, and swelling of the uvea (middle layer of the eye) may put pressure on the iris and bring it into contact with the trabecular meshwork. However, even with care, approximately 15% of people with glaucoma will lose complete vision in at least one eye within 20 years. Who is at Risk of Developing Narrow-Angle Glaucoma? Narrow-angle glaucoma is a serious condition. The converse theorem allows you to evaluate a figure quickly. As a result, eye pressure begins to go up, as does the risk of damage to the optic nerve. In cases of early detection, your eye doctor may be able to slow or prevent vision loss. Causes of Narrow-Angle Glaucoma Narrow-angle glaucoma may occur due to different reasons, including: Pupillary block This is a primary cause of narrow-angle glaucoma. Here are the four pairs of corresponding angles: Angles 1 and 5 Angles 2 and 6 Angles 3 and 7 Angles 4 and 8 When a transversal line crosses two lines, eight angles are formed. In cases of a fellow eye attack, the fellow eye could develop raised eye pressure or suffer an attack. To minimize the likelihood of the event, an eye doctor may perform a prophylactic (preventive) iridectomy (partial removal of the iris) or laser iridotomy (creates a hole in the outer edge of the iris). How is Narrow-Angle Glaucoma Diagnosed? Delayed onset of symptoms in cases of narrow-angle glaucoma predisposes people to visual loss. Central Retinal Artery Occlusion Central retinal artery occlusion (CRAO) occurs when a vessel carrying blood to the eye's retina becomes blocked. A corresponding angle is one that holds the same relative position as another angle somewhere else in the figure. Features of this condition include increased intraocular pressure and a shallow or flat anterior chamber. In severe cases, it causes blindness. CRAO can increase the risk for angle-closure glaucoma. Two angles correspond or relate to each other by being on the same side of the transversal. The abnormally high intraocular pressure often causes the damage. People with narrow drainage angles face an increased risk of this eye condition. Blurred vision and other eye problems can arise. You should speak with your doctor beforehand about any changes in medication regimens. Can narrow-angle glaucoma be cured? A surgical procedure may be necessary to slow the onset of the eye condition. Furthermore, you can implement daily actions to promote eye health, including: Eat a healthy diet rich in zinc, copper, selenium, and antioxidant vitamins C, E, and ALimit caffeine intake Exercise regularly Sleep with your head elevated at approximately 20 degreesIntegrate relaxation and meditation techniques Treatment Options for Narrow-Angle Glaucoma If you have narrow-angle glaucoma, treatment options are available. You can have alternate interior angles and alternate exterior angles. noun • [spay-shull day-ta] • data which is representative of a specific, geographic location on the surface of the Earth. Yes. They share a vertex and are opposite each other. Can you find the corresponding angle for angle 2 in our figure? The angle opposite angle 2, angle 3, is a vertical angle to angle 2. Neovascularization Iris and angle neovascularization occurs when you have new, abnormal blood vessel growth. Corresponding angles are never adjacent angles. If you have complete blockage of the drainage angle, you are experiencing an acute attack. Because of the Corresponding Angles Theorem, you already know several things about the eight angles created by the three lines: If one is a right angle, all are right angles If one is acute, four are acute angles If one is obtuse, four are obtuse angles All eight angles can be classified as adjacent angles, vertical angles, and corresponding angles If you have a two parallel lines cut by a transversal, and one angle (angle 2) is labeled 57° , making it acute, our theorem tells us that there are three other acute angles are formed. If the lines cut by the transversal are not parallel, then the corresponding angles are not equal. Central Retinal Vein Occlusion Central retinal vein occlusion (CRVO) occurs when the main vein that drains blood from the retina becomes partially or fully closed. Narrow-angle glaucoma is a severe eye condition. The Corresponding Angles Postulate is simple, but it packs a punch because, with it, you can establish relationships for all eight angles of the figure. Asian populations have an increased risk of this condition. Treatment can help manage glaucoma and prevent blindness (in most cases). Open-angle glaucoma is the most common form of this condition. Many people will develop narrow-angle glaucoma slowly and gradually. It is important to maintain check-ups, though, as a chronic form of glaucoma may still arise. Can you go blind from narrow-angle glaucoma? You should avoid antihistamines and decongestants, asthma medicine, motion sickness drugs, and tricyclic antidepressants. If two corresponding angles of a transversal across parallel lines are right angles, all angles are right angles, and the transversal is perpendicular to the parallel lines. Stress may affect intraocular pressure and influence the severity of the eye condition. In severe cases, eye pressure can increase suddenly and put you at risk of blindness if left untreated. Eye doctors may refer to narrow-angle glaucoma as either closed-angle glaucoma or angle-closure glaucoma. Undergoing regular eye exams can help catch glaucoma in its early stages and minimize the likelihood of severe health consequences. Common Questions & Answers How serious is narrow-angle glaucoma? The Corresponding Angles Theorem says that: If a transversal cuts two parallel lines, their corresponding angles are congruent. They do not touch, so they can never be consecutive interior angles. Vision loss is possible. Distinguishing symptoms of open-angle glaucoma include the following: Patchy blind spots in peripheral or central vision (often in both eyes)Tunnel vision (during advanced stages of the condition) Finally, unlike acute narrow-angle glaucoma, the onset of symptoms of open-angle glaucoma is slow. The trabecular meshwork is an area of tissue in the eye found by the base of the cornea. Since the corresponding angles are shown to be congruent, you know that the two lines cut by the transversal are parallel. The converse of the Corresponding Angles Theorem is also interesting. If a transversal cuts two lines and their corresponding angles are congruent, then the two lines are parallel. Because of the vertical angles theorem, angle 4 and 8 also measure 123° . Some people may undergo surgery to prevent this blockage from occurring. Laser peripheral iridotomy is a first-line treatment to bring about successful and long-lasting results for narrow-angle glaucoma. This is the tissue that drains aqueous fluid from the eye. What does that tell you about the lines cut by the transversal? Malignant Glaucoma This term refers to a rare but aggressive form of treatment-resistant postoperative glaucoma. This can happen without notice or pain and result in eyesight loss. Acute narrow-angle glaucoma can inflict damage to the optic nerve quickly. Potential Complications of Narrow-Angle Glaucoma If you do not seek treatment for narrow-angle glaucoma, you are at risk of serious complications, including: Permanent Visual Acuity Loss People with this eye condition can lose visual acuity (sharpness). In these cases, the drainage angle remains open, although the trabecular meshwork (an area of tissue in the eye found by the base of the cornea) does not drain fluid properly. And now, the answers (try your best first!): Angle 5 also measures 123° . Can you find all four corresponding pairs of angles? Taking steps to improve your eye health can prevent or slow vision loss and damage to the optic nerve. The following list includes treatment possibilities: Oral or intravenous acetazolamide with analgesia and antiemetics Topical medications, such as timolol or mioticsLaser peripheral iridotomy (to allow fluid to flow through the small opening made in the iris)Cataract surgery While you may undergo laser or conventional surgery for the fellow eye as well. Corresponding angles are just one type of angle pair. To diagnose narrow-angle glaucoma, your eye doctor will examine your medical history and perform a thorough eye examination. Examples include diabetic retinopathy, retinal vascular occlusions, and ocular ischemia (restriction in blood supply). Medication side effects Some prescription drugs may increase the risk for angle closure, such as eye drops to dilate the pupils. He has been a public school teacher for 27 years, including 15 years as a mathematics teacher. Next Lesson: Angle Relationships Instructor: Malcolm M.Malcolm has a Master's Degree in education and holds four teaching certificates. Glaucoma includes a range of eye conditions in which the optic nerve is damaged and vision health is in danger. If two corresponding angles of a transversal across parallel lines are right angles, what do you know about the figure? Narrow-angle glaucoma happens when the iris protrudes (bulges forward) to reduce or block the drainage angle between the cornea and iris. When not treated, it can result in permanent vision loss. People with the following risk factors have an increased risk of this form of glaucoma: High intraocular pressure Aged 60 or upBeing black, asian, or hispanic A family history of glaucomaHave other medical conditions like diabetes, heart disease, high blood pressure (hypertension), and sickle cell anemiaThin corneas (in the center)Extreme farsightedness (hyperopia)Eye injury or some types of eye surgeryThose taking corticosteroid medications, such as eye drops, for an extended period Open-Angle vs. Narrow-angle glaucoma and open-angle glaucoma are two examples. Neovascular glaucoma can develop after a CRAO. Imagine a transversal cutting across two lines. It is important to seek medical care for the eye condition. One is an exterior angle (outside the parallel lines), and one is an interior angle (inside the parallel lines). Most people remain asymptomatic until the open-angle glaucoma is more advanced. If left untreated, it can cause permanent blindness. What should I avoid with narrow-angle glaucoma?

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