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Open

A. Stack (2013)

<p>7. </p> <p>x = 6.43 (2)</p>	<p>8. </p> <p>x = 6.43 (2)</p>	<p>9. </p> <p>x = 7.7 (1)</p>
<p>10. </p> <p>x = 16.2 (1)</p>	<p>11. </p> <p>x = 16.2 (1)</p>	<p>12. </p> <p>x = 6.43 (1)</p>
<p>13. </p> <p>x = 7.7 (2)</p>	<p>14. </p> <p>x = 6.43 (1)</p>	<p>15. </p> <p>x = 16.2 (1)</p>

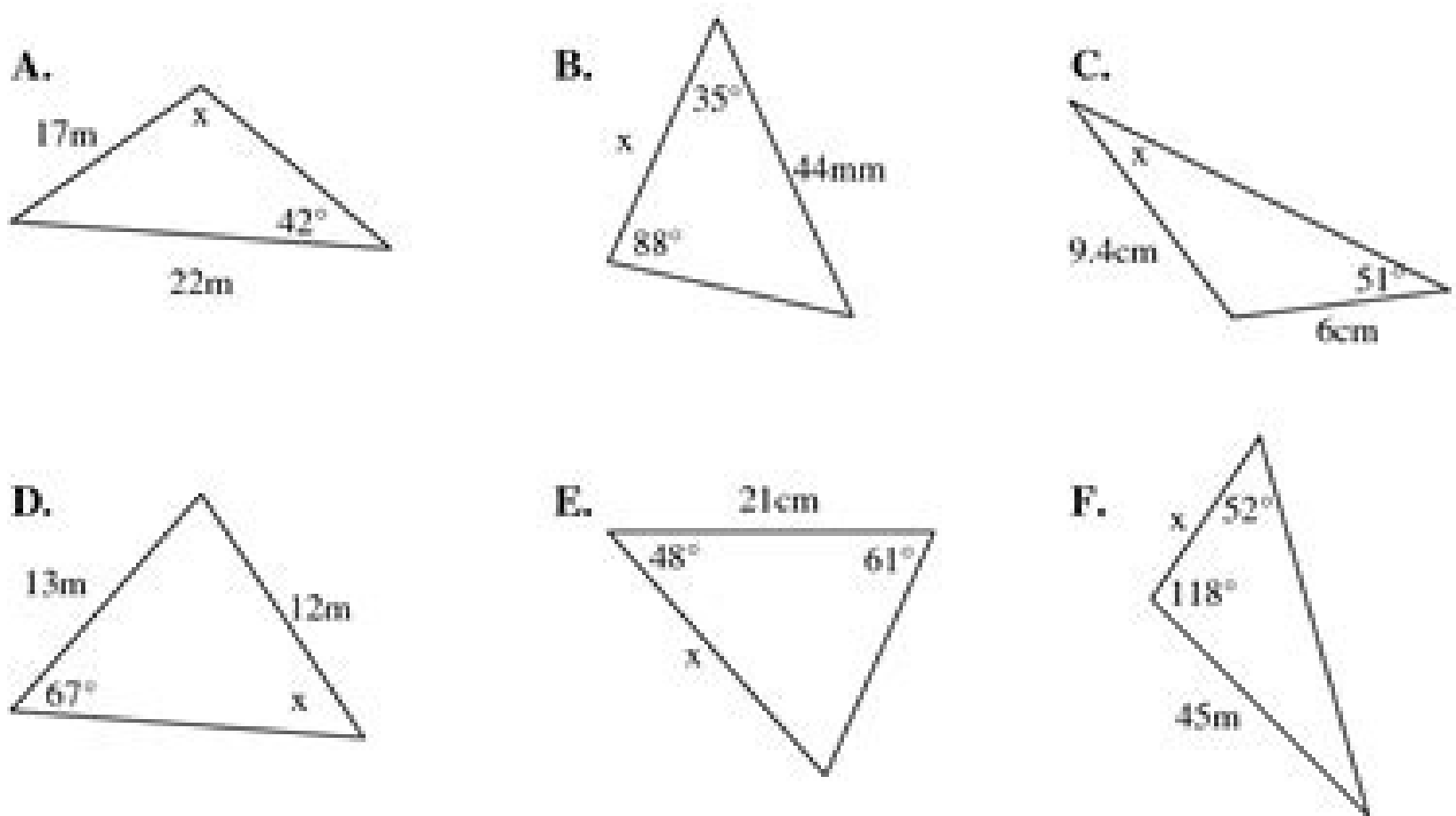
Answer Box:

A 7.0	B 44.1	C 34.2	D 57.7	E 52.3
G 48.2	H 22.2	I 18.1	N 19.3	O 39.9
S 30.6	T 65.3	U 20.9	V 60	Y 51.6

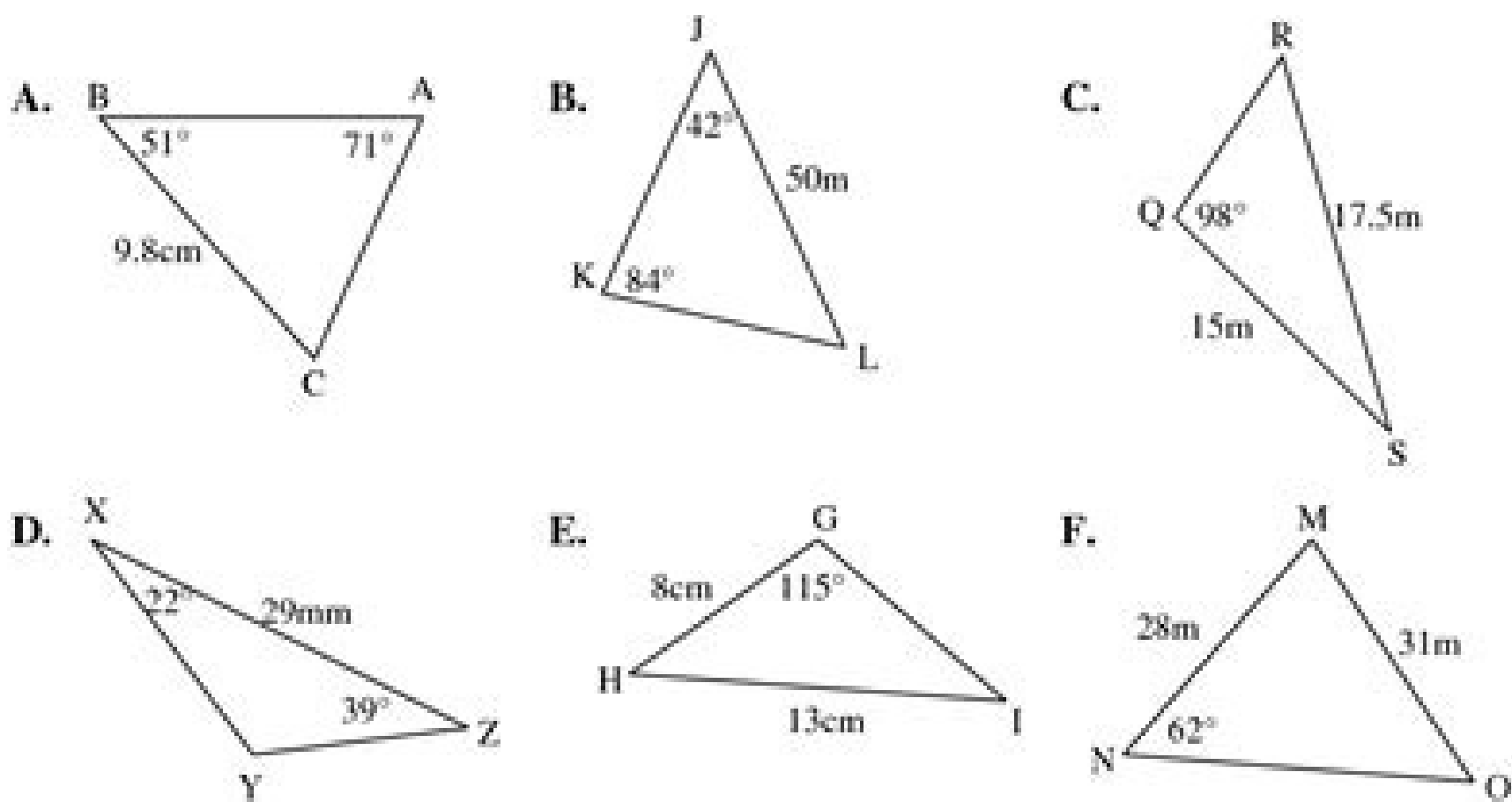
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SINE LAW WORKSHEET

1. Solve for the unknown in each triangle. Round to the nearest tenth.

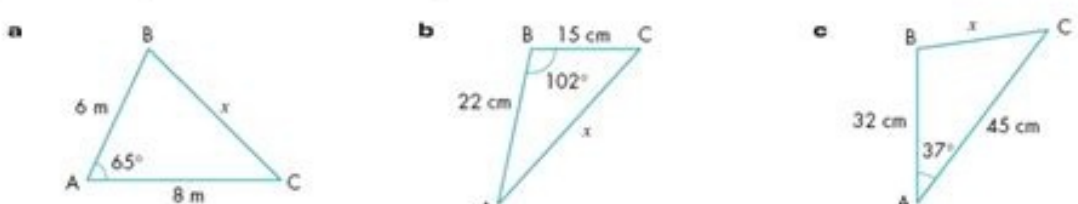


2. Solve for all missing sides and angles in each triangle. Round to the nearest tenth.



Homework - due Friday 11/9/09

1) Find the length x in each of these triangles.



2) in triangle ABC, AB = 5 cm, BC = 6 cm and angle ABC = 55°. Find AC.

3) A triangle has two sides of length 40 cm and an angle of 110°. Work out the length of the third side of the triangle.

May 06, 2015

Worksheet

Task 1 - Find the length or angle x in each of these triangles. Includes diagrams for task 1. Task 2 - Exam question. In triangle ABC, AB = 11 cm, BC = 9 cm and C = 30°. Work out the angle CAB. Task 3 - Exam question. The diagram shows a sketch of a field ABCD. A farmer wants to put a new fence round the perimeter of the field. Calculate the perimeter of the field. Extension. The angle of elevation of the top of a building measured from point A is 25°. At point D which is 15m closer to the building, the angle of elevation is 35°. Calculate the height of the building. Includes a diagram for the extension task.

As we need to know the angle at Z, this will be labelled as A and the opposite side is labelled as a. Get your free cosine rule worksheet of 20+ questions and answers. Here, we need to find the missing angle A, therefore we need to state the cosine rule with cos(A) as the subject. $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$. $\cos(A) = \frac{17^2 + 22^2 - x^2}{2 \cdot 17 \cdot 22}$ $\cos(A) = \frac{882.09 + 190.44 - x^2}{748}$ $\cos(A) = \frac{1072.53 - x^2}{748}$ $\cos(A) = \frac{1072.53 - x^2}{748} = \cos(42^\circ)$ $1072.53 - x^2 = 748 \cdot \cos(42^\circ)$ $1072.53 - x^2 = 455.59$ $1072.53 - 455.59 = x^2$ $616.94 = x^2$ $x = \sqrt{616.94} = 24.83$ $x = 24.8$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{36 + 144 - 144}{(144) \cdot (144)}$ $\cos(\theta) = \frac{36}{20736}$ $\cos(\theta) = 0.001734$ $\theta = \cos^{-1}(0.001734) = 89.9^\circ$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{6^2 + 8^2 - x^2}{2 \cdot 6 \cdot 8}$ $\cos(\theta) = \frac{100 - x^2}{96}$ $\cos(67^\circ) = \frac{100 - x^2}{96}$ $96 \cdot \cos(67^\circ) = 100 - x^2$ $96 \cdot 0.3907 = 100 - x^2$ $37.5072 = 100 - x^2$ $37.5072 - 100 = -x^2$ $-62.4928 = -x^2$ $62.4928 = x^2$ $x = \sqrt{62.4928} = 7.905$ $x = 7.9$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{5^2 + 6^2 - x^2}{2 \cdot 5 \cdot 6}$ $\cos(\theta) = \frac{61 - x^2}{60}$ $\cos(55^\circ) = \frac{61 - x^2}{60}$ $60 \cdot \cos(55^\circ) = 61 - x^2$ $60 \cdot 0.5736 = 61 - x^2$ $34.416 = 61 - x^2$ $34.416 - 61 = -x^2$ $-26.584 = -x^2$ $26.584 = x^2$ $x = \sqrt{26.584} = 5.156$ $x = 5.2$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{13^2 + 12^2 - x^2}{2 \cdot 13 \cdot 12}$ $\cos(\theta) = \frac{313 - x^2}{312}$ $\cos(67^\circ) = \frac{313 - x^2}{312}$ $312 \cdot \cos(67^\circ) = 313 - x^2$ $312 \cdot 0.3907 = 313 - x^2$ $122.8984 = 313 - x^2$ $122.8984 - 313 = -x^2$ $-190.1016 = -x^2$ $190.1016 = x^2$ $x = \sqrt{190.1016} = 13.79$ $x = 13.8$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{21^2 + 21^2 - x^2}{2 \cdot 21 \cdot 21}$ $\cos(\theta) = \frac{882 - x^2}{882}$ $\cos(48^\circ) = \frac{882 - x^2}{882}$ $882 \cdot \cos(48^\circ) = 882 - x^2$ $882 \cdot 0.6717 = 882 - x^2$ $592.4294 = 882 - x^2$ $592.4294 - 882 = -x^2$ $-289.5706 = -x^2$ $289.5706 = x^2$ $x = \sqrt{289.5706} = 17.01$ $x = 17.0$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{9.4^2 + 6^2 - x^2}{2 \cdot 9.4 \cdot 6}$ $\cos(\theta) = \frac{108.76 - x^2}{112.8}$ $\cos(51^\circ) = \frac{108.76 - x^2}{112.8}$ $112.8 \cdot \cos(51^\circ) = 108.76 - x^2$ $112.8 \cdot 0.6293 = 108.76 - x^2$ $70.95304 = 108.76 - x^2$ $70.95304 - 108.76 = -x^2$ $-37.80696 = -x^2$ $37.80696 = x^2$ $x = \sqrt{37.80696} = 6.148$ $x = 6.1$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{52^2 + 45^2 - x^2}{2 \cdot 52 \cdot 45}$ $\cos(\theta) = \frac{5167 - x^2}{4680}$ $\cos(118^\circ) = \frac{5167 - x^2}{4680}$ $4680 \cdot \cos(118^\circ) = 5167 - x^2$ $4680 \cdot (-0.19146) = 5167 - x^2$ $-896.0328 = 5167 - x^2$ $-896.0328 - 5167 = -x^2$ $-6063.0328 = -x^2$ $6063.0328 = x^2$ $x = \sqrt{6063.0328} = 77.85$ $x = 77.9$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{51^2 + 17.5^2 - x^2}{2 \cdot 51 \cdot 17.5}$ $\cos(\theta) = \frac{5102.25 - x^2}{1781.25}$ $\cos(98^\circ) = \frac{5102.25 - x^2}{1781.25}$ $1781.25 \cdot \cos(98^\circ) = 5102.25 - x^2$ $1781.25 \cdot (-0.13917) = 5102.25 - x^2$ $-247.888125 = 5102.25 - x^2$ $-247.888125 - 5102.25 = -x^2$ $-5350.138125 = -x^2$ $5350.138125 = x^2$ $x = \sqrt{5350.138125} = 73.14$ $x = 73.1$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{8^2 + 13^2 - x^2}{2 \cdot 8 \cdot 13}$ $\cos(\theta) = \frac{205 - x^2}{208}$ $\cos(115^\circ) = \frac{205 - x^2}{208}$ $208 \cdot \cos(115^\circ) = 205 - x^2$ $208 \cdot (-0.42262) = 205 - x^2$ $-87.90496 = 205 - x^2$ $-87.90496 - 205 = -x^2$ $-292.90496 = -x^2$ $292.90496 = x^2$ $x = \sqrt{292.90496} = 17.11$ $x = 17.1$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{28^2 + 31^2 - x^2}{2 \cdot 28 \cdot 31}$ $\cos(\theta) = \frac{2897 - x^2}{3496}$ $\cos(62^\circ) = \frac{2897 - x^2}{3496}$ $3496 \cdot \cos(62^\circ) = 2897 - x^2$ $3496 \cdot 0.46947 = 2897 - x^2$ $1640.25912 = 2897 - x^2$ $1640.25912 - 2897 = -x^2$ $-1256.74088 = -x^2$ $1256.74088 = x^2$ $x = \sqrt{1256.74088} = 35.45$ $x = 35.5$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{29^2 + 29^2 - x^2}{2 \cdot 29 \cdot 29}$ $\cos(\theta) = \frac{1682 - x^2}{1682}$ $\cos(22^\circ) = \frac{1682 - x^2}{1682}$ $1682 \cdot \cos(22^\circ) = 1682 - x^2$ $1682 \cdot 0.92718 = 1682 - x^2$ $1558.77876 = 1682 - x^2$ $1558.77876 - 1682 = -x^2$ $-123.22124 = -x^2$ $123.22124 = x^2$ $x = \sqrt{123.22124} = 11.1$ $x = 11.1$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{22^2 + 39^2 - x^2}{2 \cdot 22 \cdot 39}$ $\cos(\theta) = \frac{2089 - x^2}{3444}$ $\cos(39^\circ) = \frac{2089 - x^2}{3444}$ $3444 \cdot \cos(39^\circ) = 2089 - x^2$ $3444 \cdot 0.78183 = 2089 - x^2$ $2693.29452 = 2089 - x^2$ $2693.29452 - 2089 = -x^2$ $-604.29452 = -x^2$ $604.29452 = x^2$ $x = \sqrt{604.29452} = 24.58$ $x = 24.6$ $\cos(\theta) = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos(\theta) = \frac{40^2 + 40^2 - x^2}{2 \cdot 40 \cdot 40}$ $\cos(\theta) = \frac{3200 - x^2}{3200}$ $\cos(110^\circ) = \frac{3200 - x^2}{3200}$ $3200 \cdot \cos(110^\circ) = 3200 - x^2$ $3200 \cdot (-0.34202) = 3200 - x^2$ $-1094.464 = 3200 - x^2$ $-1094.464 - 3200 = -x^2$ $-4294.464 = -x^2$ $4294.464 = x^2$ $x = \sqrt{4294.464} = 65.34$ $x = 65.3$

The Sine Rule: Solutions: The Cosine Rule: Solutions: Area of Any Triangle: Solutions: Mixed Cosine, Sine and Area of Triangle: Solutions: 3D Pythagoras: Solutions: Inverse and Composite Functions: Solutions: ... If you're confused with any question on our Edexcel GCSE Maths Worksheets, please make a thread about it on the forum and someone ... A collection of videos, activities and worksheets that are suitable for A Level Maths. C2 Sine and Cosine Rule Questions in Context Bearings Examples: Fred is standing at a point looking north. He walks on a bearing of 050° for 9.8km before stopping. He then walks an additional 3.5 km on a bearing of 112° before stopping to rest. 07/10/2019 - The Corbettmaths Textbook Exercise on Sine Rule. Videos, worksheets, 5-a-day and much more. These lessons included in this resource revise Pythagoras Theorem, the knowledge of Right Angled Trigonometry, the knowledge of the sine rule cosine rule and 3D trigonometry. Accompanied with the lessons are worksheets for students to attempt in class or as homework. Plenty of revision for all types. - Maths Genie - A Level Maths revision package. Exam questions for C1, C2, C3, C4, S1 and M1 arranged by module and topic. Use our printable 9th grade worksheets in your classroom as part of your lesson plan or hand them out as homework. Our 9th grade math worksheets cover topics from ... For all triangles, angles and sides are related by the law of cosines and law of sines (also called the cosine rule and sine rule). Existence of a triangle Condition on the sides. The triangle inequality states that the sum of the lengths of any two sides of a triangle must be greater than or equal to the length of the third side. That sum can ... Domain of arccos cosine is [-1, 1] and codomain is [0, pi]. You do everything the same as for the sine. Graph of arccos cosine is symmetrical to the graph of cosine considering line x = y. first mark your endpoints, and line x = y, and do the symmetrical mapping. Graph of arccos tangent is gained the same. Prepare your students for calculus with topics like continuity, limits, rate of change, vectors, matrices, and more. Use our printable precalculus worksheets for ... Derivative Worksheets. Derivative Worksheets include practice handouts based on power rule, product rule, quotient rule, exponents, logarithms, trigonometric angles, hyperbolic functions, implicit differentiation and more. Power Rule in

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Arccos (Inverse Cosine) Cosine Rule. When we first learn the cosine function, we learn how to use it to find missing side-lengths & angles in right-angled triangles. The cosine rule is an equation that can help us find missing side-lengths and angles in any triangle. Make sure you are happy with the following topics before continuing: - Trigonometry - Rearranging Formula Sine and Cosine Rules Following conversations on Twitter about teaching sine and cosine rules (and area of a non-right-angled triangle), I am pretty pleased with this lesson. Purposeful practice, lots of things to think about, clear explanations and examples with differentiated worksheets. Ready-to-use mathematics resources for Key Stage 3, Key Stage 4 and GCSE maths classes. The Sine Rule. When we first learn the sine function, we learn how to use it to find missing side-lengths & angles in right-angled triangles. The sine rule is an equation that can help us find missing side-lengths and angles in any triangle. Make sure you are happy with the following topics before continuing: - Trigonometry - Rearranging formulae This page explains the sine, cosine, tangent ratio, gives an overview of their range of values and provides practice problems on identifying the sides that are opposite and adjacent to a given angle. The Sine, Cosine and Tangent functions express the ratios of sides of a right triangle. 4. N5 Applications of Maths Exam Worksheets by Topic. Thanks to the SQA for making these available. Questions have been split up by topic for your ease of reference. Clear, easy to follow, step-by-step worked solutions to all the exam questions in the worksheets below are available in the N5 Applications of Maths section of the Online Study Pack. Welcome to national5maths.co.uk Passing N5 Maths significantly increases your career opportunities by helping you gain a place on a college course, apprenticeship or even landing a job. A 'good' pass at N5 Maths will set you up well for the fast ... 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