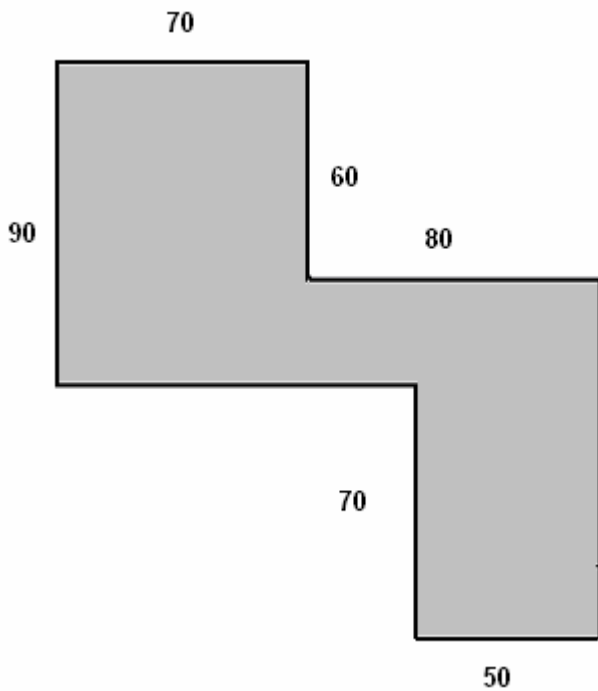
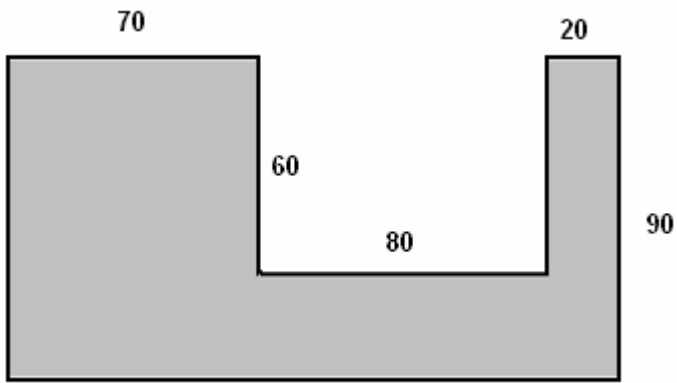


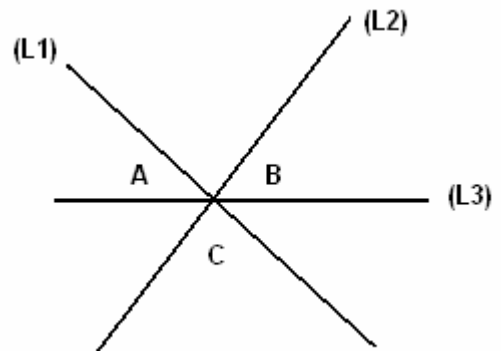
Math Worksheet: Area (1)

1. Calculate the area of each shape shown below.

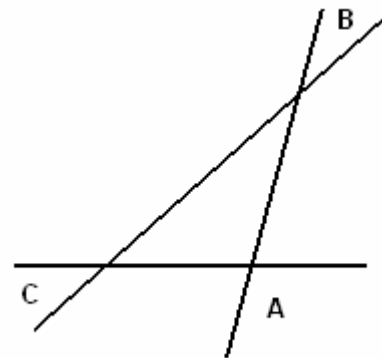


**Geometry Worksheet: Angle (4)**

1. L1, L2 and L3 are 3 straight lines. Angles A and B have sizes of 50 and 70 degrees respectively. Find the size of angle C.

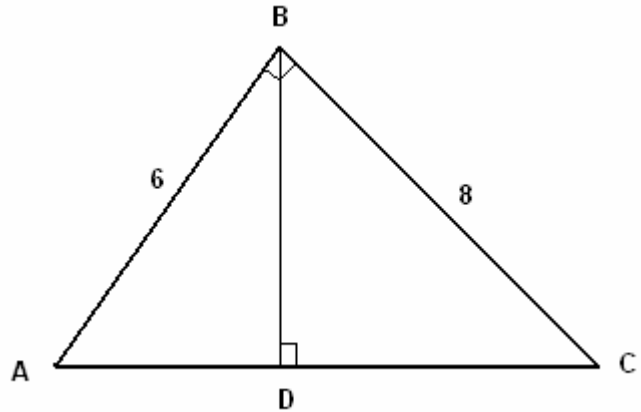


2. In the figure below, angles A and B have sizes of 96 and 35 degrees respectively. Find the size of angle C.



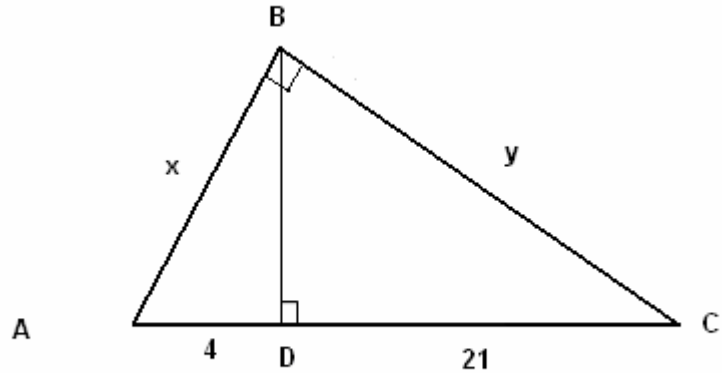
**Geometry Worksheet: Right Triangle (1)**

1. ABC is a right triangle and BD is perpendicular to AC. Find the length of AD, DC and BD.



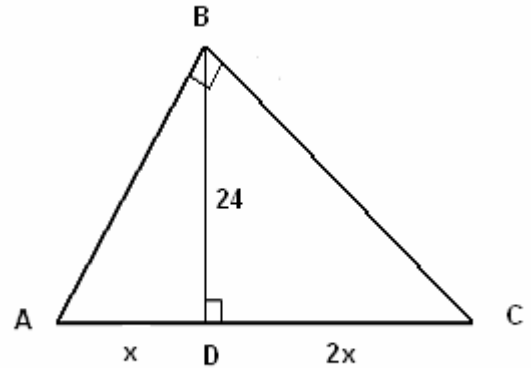
**Geometry Worksheet: Right Triangle (2)**

1. ABC is a right triangle and BD is perpendicular to AC. Find the lengths of BA and BC.



**Geometry Worksheet: Right Triangle (3)**

1. ABC is a right triangle and BD is perpendicular to AC. Find the lengths of AD.



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Trigonometry Worksheet: Trigonometric Equations (1)

Solve the trigonometric equation given by

$$2 \cos x - 1 = 0$$

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From [www.analyzemath.com](http://www.analyzemath.com)

Trigonometry Worksheet: Trigonometric Equations (2)

Solve the trigonometric equation given by

$$3 \sec^2 x - 4 = 0$$

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Trigonometry Worksheet: Trigonometric Equations (3)

Solve the trigonometric equation given by

$$\tan x \sin^2 x = 2 \tan x$$



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**Math Worksheet: Quadratic Equations(1)**

1. Solve for x the following equation.

$$\sqrt{2x+13} - x = 5$$

2. Solve, for x, the following equation

$$x^4 - 5x^2 + 6 = 0$$

3. The length L of a rectangular field is 10 m more than its width W. The area of the field is 600 m<sup>2</sup>. Find the length and width of the field.

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Trigonometry Worksheet: Amplitude and Period (2)

Find the amplitude and period of each one of the following functions.

1.  $y = \cos(3x)$

2.  $y = -2\sin(0.5x)$

3.  $y = -\frac{\sin(4x - \pi/3)}{4}$

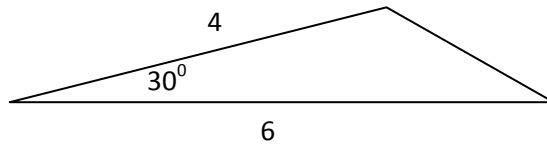
4.  $y = -\cos\left(\frac{\pi - x}{2}\right)$

5.  $y = \frac{1}{4}\sin\left(-\frac{x}{\pi} - \frac{\pi}{3}\right)$

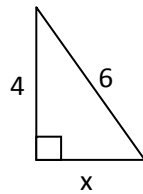
6.  $y = -3\cos(2\pi x + 4\pi)$

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- Determine the area of a circle with a **diameter** of 6 meters.
- Determine the area of the triangle below (all of the lengths are in meters):



- Determine the value of  $x$  using the diagram below (all of the lengths are in meters).



- Determine the value of  $x$

$$\begin{aligned} x + y &= 1 \\ 6x - 2y &= 9 + 2x - 5y \end{aligned}$$

- Determine the value of  $y$

$$\begin{aligned} 5x + 3y &= 0 \\ 4x + 5y &= 13 \end{aligned}$$

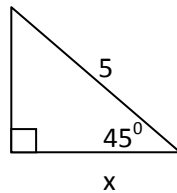
- Determine the value of  $k$

$$425 - 349 - 76 \div 2 + 35 * 6 = k$$

- Determine the value of  $T$

$$128 * 2 * (T - 60) + 448 * 1.5 * (T - 22) = 0$$

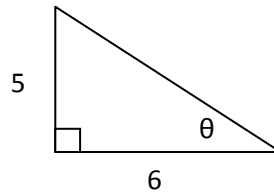
- Determine the value of  $x$  (all of the lengths are in meters).



- Determine the value of  $x$

$$x^2 - 4x = -4$$

- Determine the value of  $\theta$  (all of the lengths are in meters)



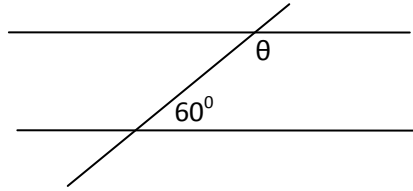
- Determine the value of  $T$ :

$$\frac{P}{T}V = \frac{45P\left(\frac{1}{15}\right)V}{6}$$

12. Determine the value of  $y$ :

$$\frac{1}{8}y^4 = \frac{972}{y}$$

13. Determine the value of  $\theta$



14. Determine the value of  $r$

$$\frac{\frac{1}{9}r^2}{\frac{1}{3}} = \frac{9}{r}$$