

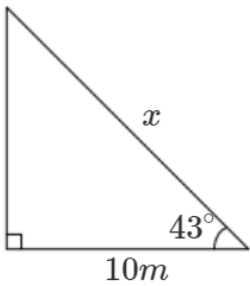
# Year 9T Homework – Half Term 4

## Homework 1 – Due: \_\_\_\_\_

Make sure you log on to HegartyMaths for help if you need it.  
The clip number is shown with the topic.

Trig – Finding Sides (509)

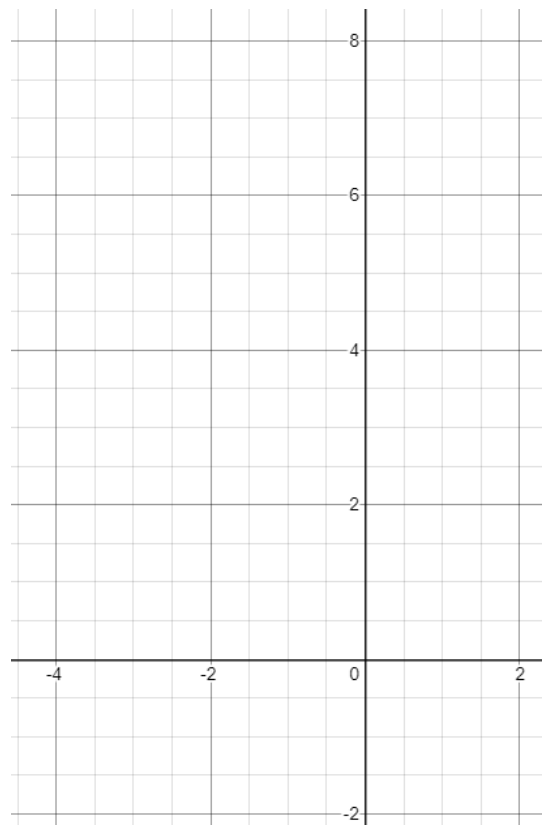
Find  $x$  (2dp):



Plotting Quadratic Graphs (251)

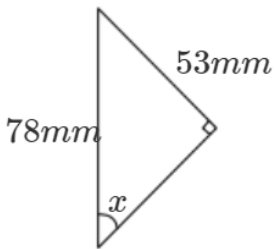
Complete the table of values and plot the graph of  $y = x^2 + x$

$x$	-3	-2	-1	0	1	2
$y$						



Trig – Finding Angles (511)

Find  $x$  (2dp):



## Homework 2 – Due: \_\_\_\_\_

Log onto HegartyMaths to watch the video and complete the quiz online. **Topic:** \_\_\_\_\_

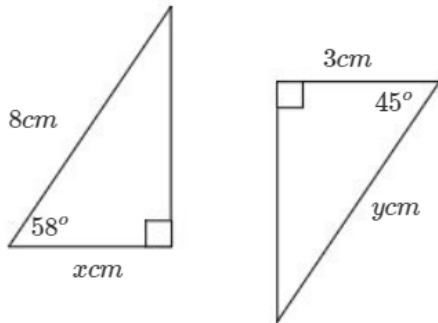
My score was: \_\_\_\_\_

## Homework 3 – Due: \_\_\_\_\_

Make sure you log on to HegartyMaths for help if you need it.  
The clip number is shown with the topic.

### Trig – Finding Sides (509)

What is larger,  $x$  or  $y$ ? Show your working.



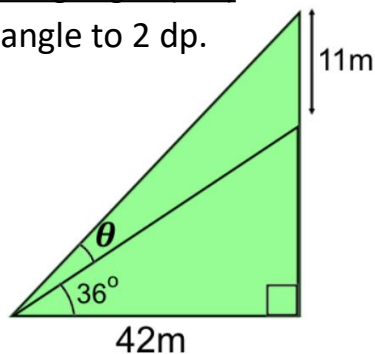
### Quadratic Sequences (247)

Explain why this is this a quadratic sequence and write down its  $n$ th term.

2, 8, 18, 32, 50, ...

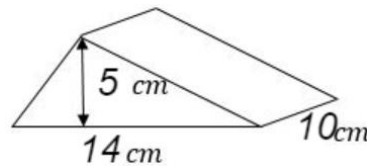
### Trig – Finding Angles (514)

Find the missing angle to 2 dp.



### Volume (570)

Find the volume.



## Homework 4 – Due: \_\_\_\_\_

Log onto HegartyMaths to watch the video and complete the quiz online. **Topic:** \_\_\_\_\_

My score was: \_\_\_\_\_

## Homework 5 – Due: \_\_\_\_\_

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The clip number is shown with the topic.

### Constant of Proportionality (344)

$y$  is directly proportional to  $x$ .  
When  $x = 3$ ,  $y = 24$ .

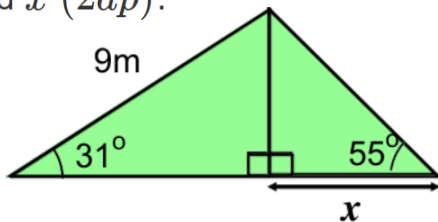
- Write an equations for  $y$  and  $x$
- Find the value of  $x$  when  $y = 8$

### Speed (716)

A car travels 382.5 miles in 8 hours and 30 minutes. How fast did it travel?

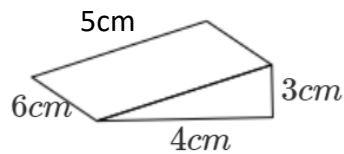
### Trig – Finding Sides (513)

Find  $x$  (2dp):



### Surface Area (585)

Find the surface area.



## Homework 6 – Due: \_\_\_\_\_

Log onto HegartyMaths to watch the video and complete the quiz online. **Topic:** \_\_\_\_\_

My score was: \_\_\_\_\_

**Extension**

Have you finished? Are you finding it too easy?

Go to <https://parallel.org.uk/> and look at the puzzles for your year group on the left. Show your answers on this page.