

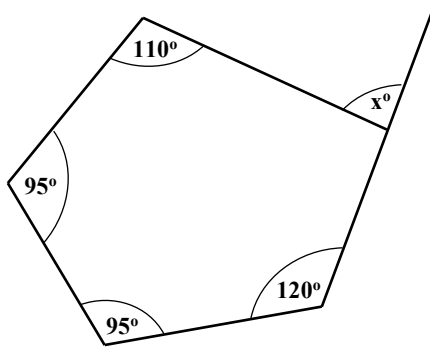


Year 08 Weekly Tutorial - 13

mathsalphacom

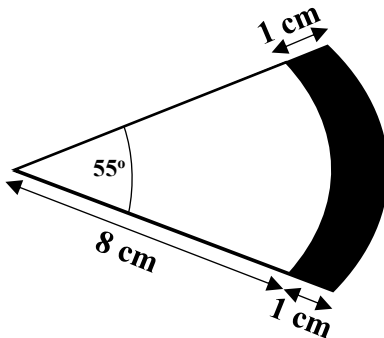
1. Expand and simplify, $(3 - x)(4 - x)(5 - x)$
2. Solve, $\frac{5x+7}{-3} = 5 - 2x$
3. Find the gradient and y-intercept of the following straight line equations.
 - a) $3x - 2y - 7 = 0$
 - b) $5x = 3y + 12$
4. Make x the subject, $\sqrt{2x^2 - 5} = 3y + 4$
5. Solve.
 - a) $3x^2 - 6x = 0$
 - b) $3x^2 - 14x + 15 = 0$

6.



Find x° .

7.



Find the shaded area correct to 1 dp.

8.

a) Complete the table to draw the graph of $y = 6 + x - x^2$.

x	-4	-3	-2	-1	0	1	2	3	4
y	-14		0		6	6		0	-6

b) Draw the graph of $y = 6 + x - x^2$ using the coordinates from the table. (use graph paper)

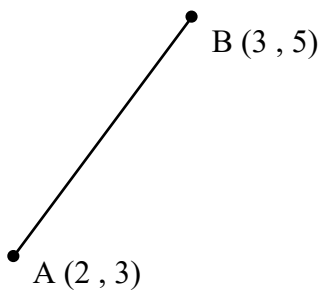
c) Write roots and y-intercept.

d) Write the coordinates at the turning point.

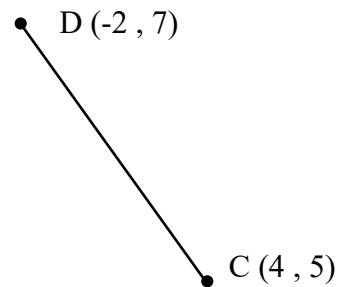
e) Write the equation of the symmetrical line.

9. Find the length of the following line segments.

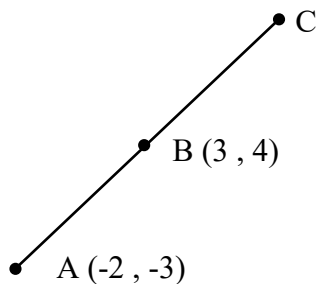
a)



b)



10.

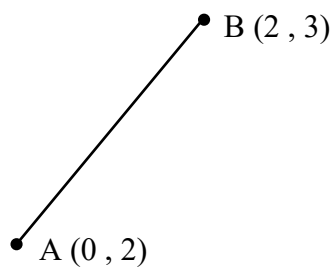


$$AB = BC$$

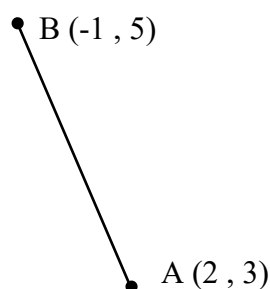
Find the coordinates at C.

11. Find the gradient of the following lines.

a)



b)



c)

