



Year 08 Weekly Tutorial - 12

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1. Factorize the following quadratic expressions.

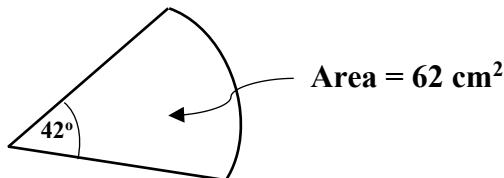
a) $2x^2 - 3x$	c) $x^2 - x - 56$	e) $6x^2 - 5x - 6$
b) $x^2 - 81$	d) $2x^2 - 5x - 12$	

2. Solve the following quadratic equations by factorization.

a) $x^2 - 25 = 0$	c) $3x^2 - 5x - 2 = 0$
b) $2x^2 - 4x = 0$	d) $2x^2 - 3x - 5 = 0$

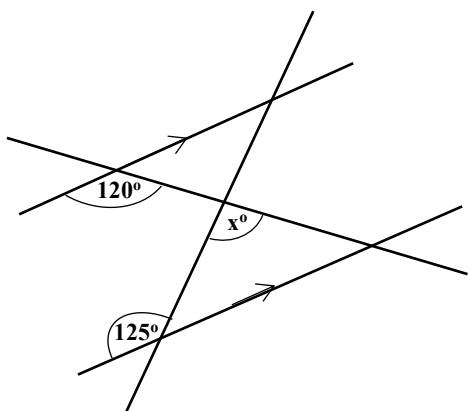
3. Solve; $7x + 3y = 5$
 $3x - 2y = 8$

4.



Find the radius of the sector correct to 1dp.

5.



a) Find x^o .
b) Write all reasons for your answer.

6. Draw the graph of the following functions.

a) $y = x^2 + 2x - 3$, $-3 \leq x \leq 3$
b) $y = -2x^2 - 3x + 9$, $-5 \leq x \leq 3$

Note – you have to use graph papers.