GCSE MATHEMATICS Higher Tier, topic sheet. QUADRATICS

Factorising, completing the square and using the quadratic formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

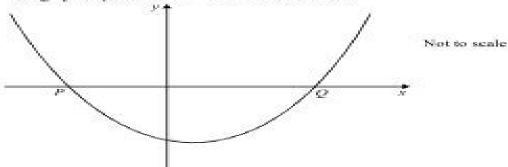
- Solve the equation x² + 4x 10 = 0
 Give your answers to 2 decimal places.
 You must show your working.
- 2. Factorise

(a)
$$x^2 - 4$$

(b)
$$3x^2 - 12$$

(c)
$$5x^2 - 17x + 6$$

- 3. Find the values of a and b such that $x^2 10x + 18 = (x a)^2 + b$.
- 4. It is given that $x^2 6x + 13 = (x a)^2 + b$
 - (a) Find the values of α and b.
 - (b) Hence find the minimum value of $x^2 6x + 13$.
- 5. It is given that $x^2 8x + 10 = (x a)^2 + b$
 - (a) Find the values of a and b.
 - (b) Hence find the minimum value of $x^2 8x + 10$
- 6. (a) Factorise $2x^2 7x 15$
 - (b) The graph of $y = 2x^2 7x 15$ is sketched below.



Find the equation of the line of symmetry of this graph.

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Michael Seilmaier

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