



**Algebra Equations**

**Past Exam Questions**

**Maths - Ordinary Level**

**Q4 2013 Sample**

**Question 4**

**(25 marks)**

- (a) Solve the equation  $x^2 - 6x - 23 = 0$ , giving your answer in the form  $a \pm b\sqrt{2}$ , where  $a, b \in \mathbb{Z}$ .

- (b) Solve the simultaneous equations

$$2r - s = 10$$

$$rs - s^2 = 12$$

**Q4 2012 Sample**

**Question 4**

**(25 marks)**

- (a) Solve the equation  $x^2 - 6x - 23 = 0$ , giving your answer in the form  $a \pm b\sqrt{2}$ , where  $a, b \in \mathbb{Z}$ .

- (b) Solve the simultaneous equations

$$2r - s = 10$$

$$rs - s^2 = 12$$

**Question 4****(25 marks)**

- (a) Solve the equation  $\frac{1}{2}(7x-2)+5=2x+7$ .

- (b) Solve the equation  $\frac{2}{3x-4} - \frac{1}{2x+1} = \frac{1}{2}$  and give your answers correct to one decimal place.