2. Quadratic equations

1	$25x^2 - 20x + k = (5x - c)^2$		Comparing terms
	$= 25x^2 - 10cx + c^2$		or equivalent
	$-20x = -10cz$	M_1	$c = \dfrac{b^2}{4a}$
	$c = 2$		
	$k = c^2 = 2^2$	A_1	$k = \dfrac{(-20)^2}{4 \times 25}$
	$\therefore k = 4$		
		2	

1. $(3x + 5)^2 \; + \; (\sqrt{611})^2 = (7x = 2)^2$
        $(9x^2 + 30x + 25) + 611 = 49x^2 + 28x + 4$
        $-40x^2 + 2x + 632 = 0$
        $20x^2 - x = 316 = 0$
        $x = \dfrac{1 \pm \sqrt{2581}}{40}$
        $= \dfrac{160}{40}$ OR $x = 4$
      $Area = (½ \ x \sqrt{611} \ x \ 17$
         $= 210.1cm^2$

2. $7x - 4 \leq 9x + 2$ $9x + 2 < 3x + 14$
        $\dfrac{-6}{2} \leq \dfrac{2x}{2}$ $6x < 12$
                  $x < 2$
        $-3 \leq x$
        $.\therefore -3 \leq x < 2$
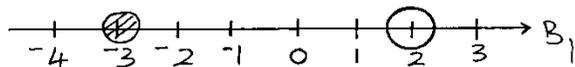
        Integral values are -3, -2, -1, 0 and 1