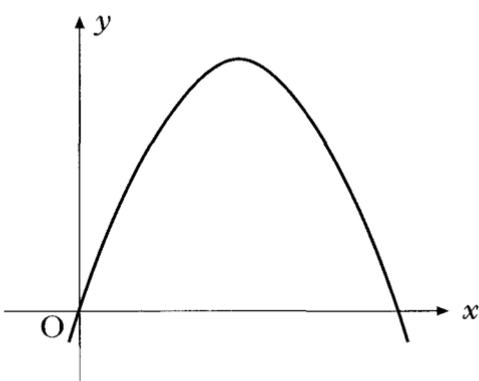


## National 5 & Int. 2

## Factorising

2017 P2 Q9a	Factorise $4x^2 - 25$ .	1
Ans	$(2x - 5)(2x + 5)$	
2016 P2 Q4	Factorise fully $3x^2 - 48$ .	2
Ans	$3(x + 4)(x - 4)$	
2014 P2 Q3	Factorise fully $3x^2 + 9x - 12$ .	3
Ans	$3(x + 4)(x - 1)$	
2013 P1 Q1	Factorise $6ab - 7bc$ .	1
Ans	$b(6a - 7c)$	
2012 P1 Q8	(a) Factorise $a^2 + 2ab + b^2$ .	1
	(b) Hence, or otherwise, find the value of $94^2 + 2 \times 94 \times 6 + 6^2$ .	2
Ans	(a) $(a + b)^2$ (b) 10000	
2011 P1 Q9(a)	(a) Factorise $x^2 - 4x - 21$ .	2
Ans	$(x + 3)(x - 7)$	
2010 P1 Q4a	Factorise $x^2 + x - 6$ .	2
Ans	$(x + 3)(x - 2)$	

2009 P1 O3	Factorise $x^2 - 5x - 24.$	2
Ans	$(x - 8)(x + 3)$	
2008 P1 Q4	(a) Factorise $x^2 - y^2.$  (b) Hence, or otherwise, find the value of $9 \cdot 3^2 - 0 \cdot 7^2.$	1  2
Ans	(a) $(x - y)(x + y)$ (b) 86	
2007 P1 Q7a	The graph shown below is part of the parabola with equation $y = 8x - x^2.$    (a) By factorising $8x - x^2$ , find the roots of the equation $8x - x^2 = 0.$	2
Ans	$x = 0$ , $x = 8$	
2007 P2 O7a	Factorise <b>fully</b> $2x^2 - 18.$	2
Ans	$2(x - 3)(x + 3)$	
2006 P2 O6	Factorise $4p^2 - 49.$	2
Ans	$(2p - 7)(2p + 7)$	
2005 P1 O3b	Factorise $2p^2 - 5p - 12.$	2
Ans	$(2p + 3)(p - 4)$	

2004 P2 Q3b	Factorise $3x^2 - 7x + 2.$	2
Ans	$(3x - 1)(x - 2)$	
2003 P1 Q8a	Factorise $7 + 6x - x^2.$	2
Ans	$(7 - x)(1 + x)$	
2002W P2 Q10b	Factorise $2x^2 - 7x - 9.$	2
Ans	$(2x - 9)(x + 1)$	
2002 P2 Q5a	(i) Factorise completely $3y^2 - 6y.$	1
	(ii) Factorise $y^2 + y - 6.$	2
Ans	(i) $3y(y - 2)$ (ii) $(y + 3)(y - 2)$	
2001 P1 Q1	Factorise $x^2 + 2x - 15.$	2
Ans	$(x + 5)(x - 3)$	