



**Q4, (Jun 2015, Q6)**

$$x^2 - (5 - 2x)^2 = 3$$

$$3x^2 - 20x + 28 = 0$$

$$(3x - 14)(x - 2) = 0$$

$$x = \frac{14}{3}, x = 2$$

$$y = -\frac{13}{3}, y = 1$$

M1*	Substitute for $x/y$ or valid attempt to eliminate one of the variables
A1	Three term quadratic in solvable form
M1dep	Correct method to solve three term quadratic – <b>see appendix 1</b>
A1	Both $x$ values correct
A1 [5]	Both $y$ values correct. <b>Allow 1 A mark for one correct pair of <math>x</math> and <math>y</math> from correct factorisation.</b>

**Q5, (Jun 2016, Q3)**

$$x^2 + (3x + 4)^2 = 34$$

$$10x^2 + 24x - 18 = 0$$

$$5x^2 + 12x - 9 = 0$$

$$(5x - 3)(x + 3) = 0$$

$$x = \frac{3}{5}, x = -3$$

$$y = \frac{29}{5}, y = -5$$

M1*	Substitute for $x/y$ or valid attempt to eliminate one of the variables
A1	Correct three term quadratic in solvable form
M1dep*	Attempt to solve resulting three term quadratic
A1	Correct $x$ values
A1 [5]	Correct $y$ values