

| | | | | |
|---------------|--|-------------------------------------|---|---|
| 18 | $y^2 + 4x = 12$ $4x + 5y = 20$ with subtraction or $\left(\frac{10-2x}{2}\right)^2 + 4x = 12$ or $2 + \left(\frac{12-x}{4}\right)^2 + 3x = 10$ or | | | M1 for eliminating one variable multiplication of equation(s) to get same multiple of x with subtraction (variable not utilised) or either rearrangement of one equation and then correct substitution (one correct equation (variable algebraic error or rearrangement)) |
| | E.g. $x^2 - 6xy + 9y^2 = 0$ or $4x^2 - 4x + 2 = 0$ | | | A1 reduction to a correct 1 term quadratic; signs may not all be 'on the same side' |
| | E.g. $3x + 2(3x + 4) = 16$ or $4(x + 2)(x + 1) = 40$ | | | M1 if 1st M1 awarded and equation is quadratic for correct factorisation or correct substitution into formula |
| | $(x = \frac{10 \pm \sqrt{12}}{2})$ or $\frac{10 \pm \sqrt{12}}{2}$ $(x = \frac{10 \pm \sqrt{12}}{2})$ or $\frac{10 \pm \sqrt{12} + 1}{2}$ | | | A1 for $y = 1, x = 4$ or $x = 1, y = 4$ correct x or y values implies previous M1 |
| | | $x = 1, y = 2$ or $x = 1, y = 4$ | 4 | M1 (also see the previous M1) for correct substitution to find both values |
| | | | | A1 values for x and y must be correctly paired (top or M1 awarded) |
| Total 8 marks | | | | |

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Wolfgang Guggemos



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