1) 


2)

| 9 | $y=\frac{1}{2} x+5$ | 3 | M1 $(m=) \frac{8-5}{6-0}$ oe B1 $(c=) 5$ <br> or |
| :--- | :--- | :--- | :--- |
| M1 A1 $y-8=\frac{1}{2}(x-6)$ or $y-5=\frac{1}{2}(x-0)$ |  |  |  |
| Allow $3 / 6$ for the $\frac{1}{2}$ |  |  |  |
| A1 $y=\frac{1}{2} x+5$ or $2 y-x=10$ oe |  |  |  |

3) 

| (a) $y=2 x-4$ | 2 | W1 $2 x+c$ or W1 $m x-4$ |
| :--- | :--- | :--- |
| (b) $(2,0)$ | 1ft | For $y=2 x+k$ only, allow $(-k / 2,0)$ |

4) 

| $(4,2)$ | 2 | M1 $\frac{2+6}{2}$ and $\frac{-5+9}{2}$ oe |
| :--- | :--- | :--- |
| or a drawing used correctly |  |  |

5) 

| $5 \mathbf{w w w}$ | 2 | M1 $(-4--1)^{2}+(8-4)^{2}$ or better |
| :--- | :--- | :--- |

6) 

| $m=2 \quad c=-8$ | 4 | B1 $B(4,0)$ or $A(-2,0)$ seen or used <br> B1 $m=2$ <br> M1 substituting $(4,0)$ into $y=2 x+c$ or $\frac{0-c}{4-0}=2$ |
| :--- | :--- | :--- |

7) 

| (a) 4 | 1 |  |
| :--- | :--- | :--- |
| (b) $y=-2 x+9$ oe | 3 | M1 $\frac{5-3}{2-3}$ oe <br> M1 substitution of a point into their equation <br> If M1 only then A1ft for $y=" ~$ <br> correctly with their numeric values $" c$ " used |

8) 

| 13 | $\mathbf{3}$ | B1 for 12, 5 seen M1 for (their 12 $)^{2}+(\text { their 5 })^{2}$ <br> or M2 $\sqrt{ }\left[(-8-4)^{2}+(1-6)^{2}\right]$ oe <br> or M1 if $\sqrt{ }$ missing |
| :--- | :--- | :--- |

9) 

| (a) $(2,4)$ | 1 |  |
| :--- | :---: | :--- |
| (b) $(6,0)$ | 1 |  |
| (c) (i) $(4,2) \mathrm{ft}$ | $1 \mathbf{f t}$ | From (a) and (b) |
| $\quad$ (ii) $y=-3 x+14$ oe | 2 | M1 sub their (c)(i) into $y=-3 x+\mathrm{c}$ oe |

10) 

| (a) $\left(6,1 \frac{1}{2}\right)$ | $\mathbf{1}$ |  |
| :--- | :--- | :--- |
| (b) $y=-\frac{1}{5} x+4$ oe | $\mathbf{3}$ | B1 correct numerical format $\mathbf{B 1}$ correct $m$ <br> B1 correct $c$ |

11) 

| $y=4 x+1$ | $\mathbf{3}$ | B1 correct numerical $y=m x+c$ <br> B1 $c=1$ <br> B1 $m=4$ |
| :--- | :--- | :--- |

