| 1 | $y=5 x-4$ www | 3 | M2 for $\frac{y-11}{-9-11}=\frac{x-3}{-1-3}$ o. <br> or M1 for grad $=\frac{11-(-9)}{3-(-1)}$ or 5 eg in $y$ <br> $=5 x+k$ and M1 for $y-11=$ their $m(x-$ <br> 3) o.e. or subst $(3,11)$ or $-1,-9)$ in <br> $y=$ their $m x+c$ or M1 for $y=k x-4(\mathrm{eg}$ <br> may be found by drawing) | 3 |
| :--- | :--- | :--- | :--- | :--- |


| $\mathbf{2}$ | (i) (0,4) and (6, 0) | 2 | 1 each; allow $x=0, y=4$ etc; condone <br> $x=6, y=4$ isw but 0 for (6, 4) with no <br> working <br> 1 for $-\frac{4}{6} x$ or $4 /-6$ or $4 / 6$ o.e. or ft <br> (accept 0.67 or better) <br> 0 for just rearranging to $y=-\frac{2}{3} x+4$ | 4 |
| :--- | :--- | :--- | :--- | :--- |



| 4 | $6 x+2(2 x-5)=7$ | M1 | for subst or multn of eqns so one pair of <br> coeffts equal (condone one error) <br> simplification (condone one error) or <br> appropriate addn/subtn to eliminate <br> variable <br> allow as separate or coordinates as <br> requested <br> graphical soln: M0 |  |
| :--- | :--- | :--- | :--- | :--- |
| $x=1.7$ o.e. isw <br> $y=-1.6$ o.e .isw | A1 |  |  |  |


| 5 | (i) $-4 / 5$ or -0.8 o.e. <br> (ii) $(15,0)$ or 15 found | 2 3 | M1 for $4 / 5$ or $4 /-5$ or 0.8 or $-4.8 / 6$ or correct method using two points on the line (at least one correct) (may be graphical) or for $-0.8 \times$ o.e. <br> M1 for $y=$ their (i) $x+12$ o.e. or $4 x+5 y$ $=k$ and $(0,12)$ subst and M1 for using $y$ $=0$ eg $-12=-0.8 x$ or ft their eqn <br> or M1 for given line goes through ( 0 , 4.8 ) and $(6,0)$ and M 1 for $6 \times 12 / 4.8$ graphical soln: allow M1 for correct required line drawn and M 1 for answer within 2 mm of $(15,0)$ | 5 |
| :---: | :---: | :---: | :---: | :---: |



| 7 | $y=2 x+4$ | 3 | M1 for $m=2$ stated [M0 if go on to use <br> $m=-1 / 2]$ or M1 for $y=2 x+k, k \neq 7$ <br> and M1indep for $y-10=m(x-3)$ or $(3$, <br> $10)$ subst $y=m x+c ;$ allow 3 for $y=2 x$ <br> $+k$ and $k=4$ | 3 |
| :--- | :--- | :--- | :--- | :--- |

