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| --- | --- |
| **Algebra Revision**  | **3** |
| **(a)** | **(b)** | **(c)** | **(d)** |
| An apple costs 20p and a banana costs 25p. Write a formula for the total cost $C$ of $x$ apples and $y$ bananas. | Solve $4x+y=13$ $2x-3y=17$ | Expand and simplify$$(2x-1)(3x+5)$$ | (i) Factorise $$x^{2}+2x-35$$(ii) Hence solve$$x^{2}+2x-35=0$$ |
| **(e)** | **(f)** |
| Plot the graph of $y=5-2x$

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| $$x$$ | $$-2$$ | $$-1$$ | $$0$$ | $$1$$ | $$2$$ |
| $$y$$ |  |  |  |  |  |

 | Plot the graph of $$y=x^{2}-2x-3$$

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| $$x$$ | $$-2$$ | $$-1$$ | $$0$$ | $$1$$ | $$2$$ | $$3$$ | $$4$$ |
| $$y$$ |  |  |  |  |  |  |  |

 |
| **(h)** |
| Use the graph to convert 50 euros into Japanese Yen |
| **(g)** |
| Solve$$-5<2x+3\leq 4$$ |
| **(i)** |
| Find the y-intercept of the straight line with equation $2y-5x=6$ |