|  |  |  |
| --- | --- | --- |
| Q1a) For find | b) For find | c) For find |

**National 5 S4 October Assessment revision booklet (non-calculator)**

**Q2) Fully factorise the following:**

|  |  |  |
| --- | --- | --- |
| a) | b) | c) |
| d) | e) | f) |

**Q3) Expand and simplify the following:**

|  |  |  |
| --- | --- | --- |
| a) | b) | c) |

**Q4) Calculate the following:**

|  |  |  |
| --- | --- | --- |
| a) 1 | b) | c) |
|  |  |  |

Q5a) Find the equation of a straight line passing through the point (4,8), with a gradient of -5.

b) Find the equation of a straight line passing through the point (3, -4) and (5, 0).

c) Find the equation of a straight line passing through points (0, -3) and (4,7).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
|  |  |  |  |  |  |  |  |

Q6) Copy and complete the table below, then by drawing a pair of axes and plotting the points, draw the straight line for the equation

Diagram

Description automatically generated

**Q7) Change the subject of the following formulae to**

|  |  |  |
| --- | --- | --- |
|  |  |  |

**Q8) Solve the following quadratic equations for**

|  |  |  |
| --- | --- | --- |
|  |  |  |

**Q9) Solve the following equations for**

|  |  |  |
| --- | --- | --- |
|  |  |  |

**Q10) Solve the following inequalities:**

|  |  |  |
| --- | --- | --- |
|  |  |  |

**Diagram

Description automatically generatedQ11) Determine whether or not the following triangles are right-angled. Show your working.**

**Diagram, shape

Description automatically generated**

b)

a)

**Q12)**

A picture containing chart

Description automatically generated

**Chart

Description automatically generated with low confidence**

**Q13) Calculate the perimeter of the following shape.**