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| **Write down the coordinates of where the curve and the line meet.** | **Rearrange the following to make x the subject.** | **Write the following quadratic in completed square form and write down the coordinates of the minimum point.**    **Now sketch the graph.** | **The area of the rectangle is 100cm3**    **What is the length of the longer side?** |
| Shade the region that satisfies all 3 inequalities. | **Write down the radius and the coordinates of the centre of the circle:**    **Now write the equations in expanded form. Explain how you can get back to the form above.** | **Show that**    **simplifies to**    **Now solve the equation.** | **Find the gradient of the line perpendicular to this one.**    **Can you write down the equation of the line perpendicular to this which passes through (2,1)** |
| **Simplify the following:** | **Prove that the sum of any 2 consecutive odd numbers is a multiple of 4** | **Simplify the following algebraic fraction** | **Solve the following equations:** |