**Summary:**

100000+ variations. Factorising quadratics.

**Question:**

a) Solve by factorising:

<EFOFEX>
id:fxe{39114311-cd34-4dca-af54-0cce76472ed2}
FXGP:DP-S6L5RV3
FXData:

</EFOFEX>

b) Solve by factorising

<EFOFEX>
id:fxe{459faf11-c4e4-429b-94f4-79ed169e1e25}
FXGP:DP-F6HZ6TG
FXData:

</EFOFEX>

c) The length of a rectangular lot is <EFOFEX>
id:fxe{0aa709ae-7363-481e-8c5d-2d42eb788b24}
FXGP:DP-WYUTUS2
FXData:

</EFOFEX> metres more than its width. Let the width be *w*. Draw a diagram and label the length and width in terms of *w*.

Find the length and width of the rectangular lot if the area is <EFOFEX>
id:fxe{c78616a3-4247-43f2-bb7f-5eb28f5ecad6}
FXGP:DP-WYUTUS2
FXData:

</EFOFEX>m2.

d) Solve by equating to 0 and factorising.

<EFOFEX>
id:fxe{e37fae44-a240-487f-8ec9-fa56498a774d}
FXGP:DP-LMUGZU4
FXData:

</EFOFEX>

**Solution:**

a) <EFOFEX>
id:fxe{7d6235d3-416c-4154-83f0-dc0ff6cd9b6f}
FXGP:DP-S6L5RV3
FXData:

</EFOFEX>

b) <EFOFEX>
id:fxe{202e4969-c3aa-452c-9b46-9fea8b00b728}
FXGP:DP-F6HZ6TG
FXData:

</EFOFEX>

c)

<EFOFEX>
id:fxd{666e95f8-d095-4c45-8161-29450da2850d}
FXGP:DP-WYUTUS2
FXData:

</EFOFEX>

<EFOFEX>
id:fxe{b2961239-0217-4915-88bd-2c8e65a39220}
FXGP:DP-WYUTUS2
FXData:

</EFOFEX>

d) <EFOFEX>
id:fxe{d8da5938-6218-4fbf-88c6-f239409887a0}
FXGP:DP-LMUGZU4
FXData:

</EFOFEX>