Algebra 10 Generating cubic equations given the roots

Example 1:

A cubic curve has roots x = 2 x = -1 and x = -3.

1. If the curve cuts the y – axis at the point (0 , -6), write the curve in the form ax3 + bx2 + cx + d = 0.
2. Hence, sketch the curve.

Example 2 :

Write the following polynomial in the form ax3 + bx2 + cx + d = 0.

(see diagram)

Example 3:

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