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The correct form for the part of the expansion containing the doubly repeated root is therefore  $(Bx+C)/(x-2)^2$ . Using this form and either of methods (i) and (ii) for determining the constants gives the full partial fraction expansion as.  $x - 4$

$$(x+1)(x-2)^2 = -\frac{5}{9}(x+1) + \frac{5x-16}{(x-2)^2}$$

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