77. For $x > 20$ mm, the field due i_2 is downward and thus subtracts from B_1 and is entirely consistent with the given expression for B_2 (note that it becomes negative when $x > d$). Similarly, for $x < -20$ mm, the field due to i_1 is downward and subtracts from B_2 (which is positive and points upward for all $x < d$). This again is consistent with the expression for B_1 which is seen to become negative for x less than $-d$ (that is, x negative and $|x| > |d|$). We conclude that the given expressions are valid over the whole of the x axis, and their answer (Eq. 30-33) holds for all x (other than at the locations of the wires themselves, where it becomes problematic, as discussed in the Sample Problem).