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 $\begin{array}{ll} (1^{st} \ ... \ rearrange) \colon = 3AX - 12BX + 2AY - 8BY \\ (2^{nd} \ ... \ factor \ term \ 1) \colon = 3X \ (A - 4B) \\ (3^{rd} \ ... \ factor \ term \ 2) \colon = 3X \ (A - 4B) \\ (ANSWER) \\ \end{array} \\ = (A - 4B) \ (3X + 2Y) \end{array}$