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Which of the following sequences of reactions would be most effective for synthesizing p-nitrobenzoic acid from benzene? In each case, "methylation" means Friedel-Crafts reaction using methyl iodide and aluminum triiodide, "nitration" means treatment with a nitric acid-sulfuric acid mixture, and "oxidation" means heating with aqueous potassium permanganate solution.

- ☐ (A) Nitration, then methylation, then oxidation ☐ (B) Nitration, then oxidation, then methylation
- ☐ (C) Methylation, then nitration, then oxidation ☐ (D) Methylation, then oxidation, then nitration
- ☐ (E) None of these reaction sequences would produce p-nitrobenzoic acid

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