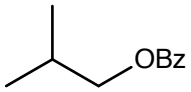
CHM 4220 Organic Synthesis, Dr. Laurie S. Starkey, Cal Poly Pomona
Protective Groups Homework

Name:_____

Read Ch. 1 (Strategies, 2018), work on the end-of-chapter problems (answers @ back of book).

Draw a <u>complete</u> structure for each of the protected compounds & provide reagents for removal.



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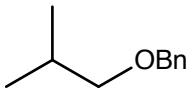

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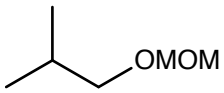

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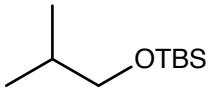

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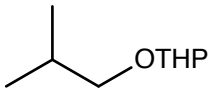

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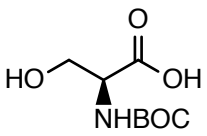

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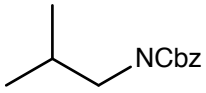

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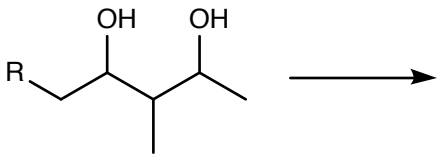
What protecting group is suitable for the following 1,3-diol? Provide reagents to add the protecting group, and draw the product.



What carboxylic acid protecting group is stable to basic conditions? Draw an example and explain why it will not undergo hydrolysis with NaOH and water.