

# CEM 251 (730)

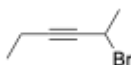
## Quiz 4

Enter your text here...

1.

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(3-pts.) What is the IUPAC name for the compound below?



A 2-bromohex-2-yne

**B** 2-bromohex-3-yne

C 3-bromohex-3-yne

D 2-bromohexyne

2.

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*what*  
(3-pts) is the hybridized orbitals for the sigma bond in carbon-carbon triple bond?

A sp<sup>3</sup>-sp<sup>3</sup>

**B** sp<sup>2</sup>-sp<sup>2</sup>

C

sp-sp

D

s-s

3.

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(3-pts) Which of the reagents below would be appropriate for the conversion below?



A.  $\text{H}^+/\text{H}_2\text{O}$

B.  $\text{Br}_2/2 \text{NaNH}_2$

C.  $\text{Cl}_2/\text{NaOH}$

D. 2 LDA

A

A

B

B

C

C

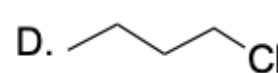
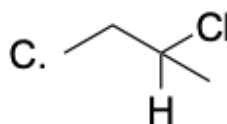
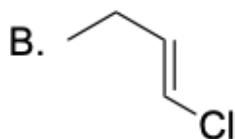
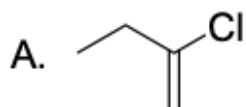
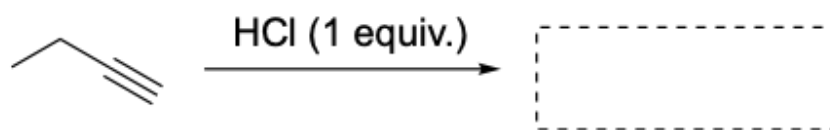
D

D

4.

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(3-pts) Provide the product for the reaction below?



A

A

B B

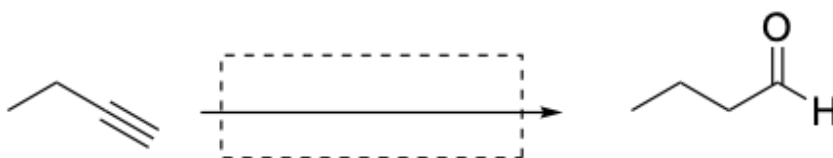
C C

D D

5.

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(3-pts.) Which reagent is necessary for the transformation below?



A.  $\text{H}_2\text{SO}_4, \text{HgSO}_4, \text{H}_2\text{O}$     B.  $\text{BH}_3, \text{H}_2\text{O}_2, \text{NaOH}$     C.  $\text{H}^+/\text{H}_2\text{O}$     D.  $\text{OsO}_4$

A A

B B

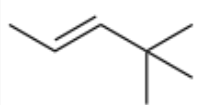
C C

D D

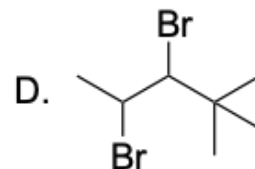
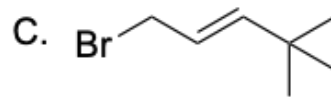
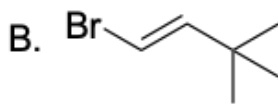
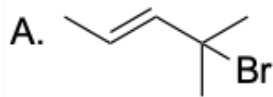
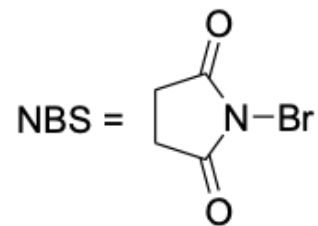
6.

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(3-pts.) Using NBS as the brominating agent, predict the product of the reaction below.



NBS



A

A

B

B

C

C

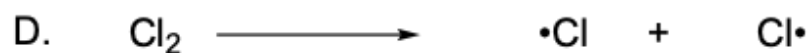
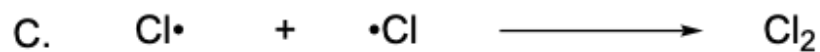
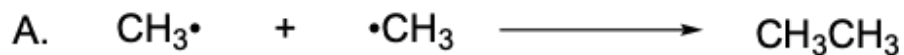
D

D

7

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(3-pts) Which of the radical reactions below belongs to propagation step?

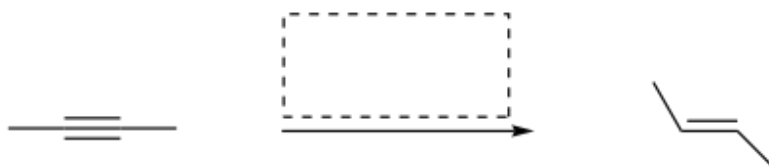


A	A
<b>B</b>	B
C	C
D	D

8.

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(3-pts.) Which of the following hydrogenation reagents is required for the transformation of 2-butyne to trans-2-butene?



A	Lindlars's catalyst
B	H <sub>2</sub> /Pt
C	H <sub>2</sub> /Ni
<b>D</b>	Na/NH <sub>3</sub> (l)

9.

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(1-pt) During the depletion of the ozone layer CFC gas which of the following radicals is not produced?

A	•OCl
B	•F

C	•Cl
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<del>D</del>	•C
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