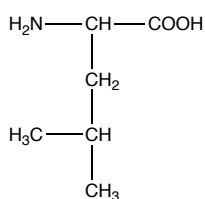
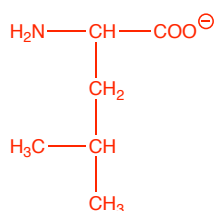




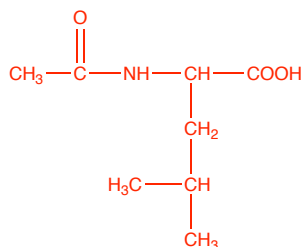
1 The structure of leucine is shown:



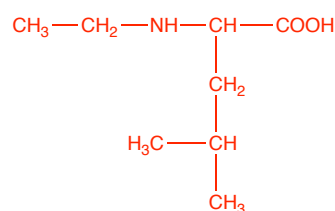
reaction with NaOH



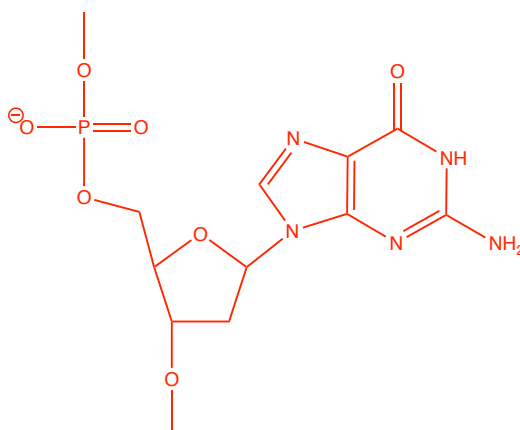
reaction with ethanoyl chloride



reaction with bromoethane (1:1 ratio)



2 a Draw the nucleotide containing one phosphate group, one deoxyribose group and one guanine group.

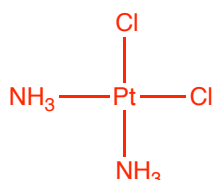


b Identify the complementary base to guanine, and how they interact from one DNA strand to the other.

cytosine

forms 3 hydrogen-bonds

3 a Draw *cis*-platin.



b Explain how *cis*-platin acts as an anticancer drug

binds to two guanine bases in DNA chain

prevent duplication of DNA