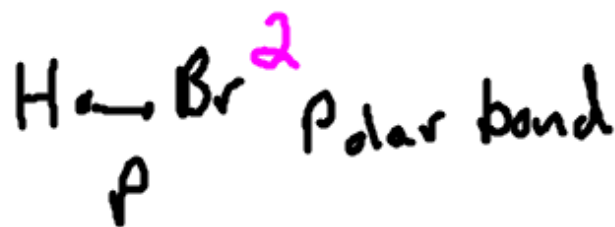
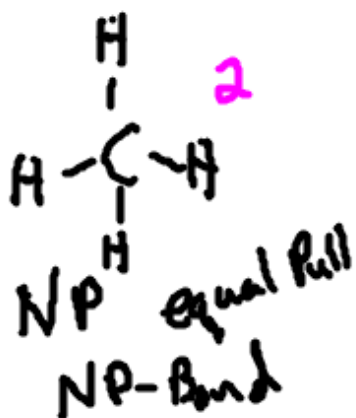
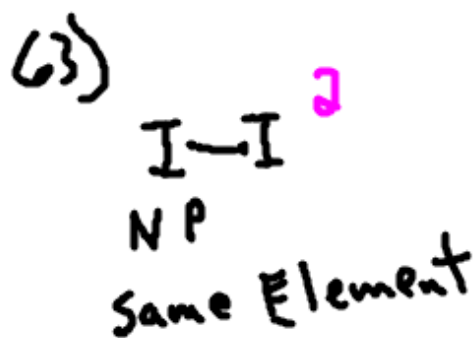
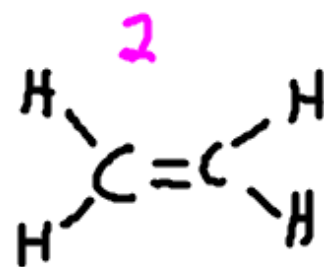
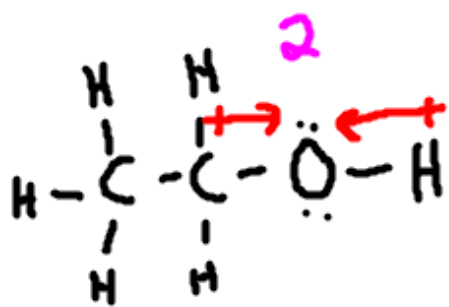
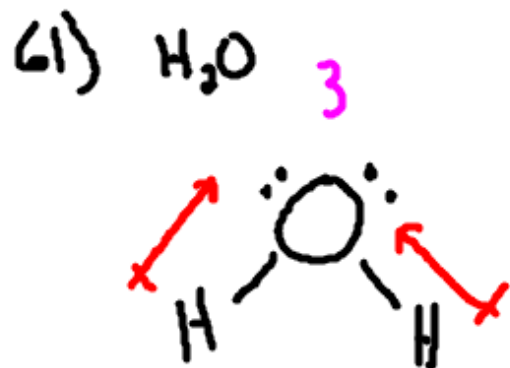


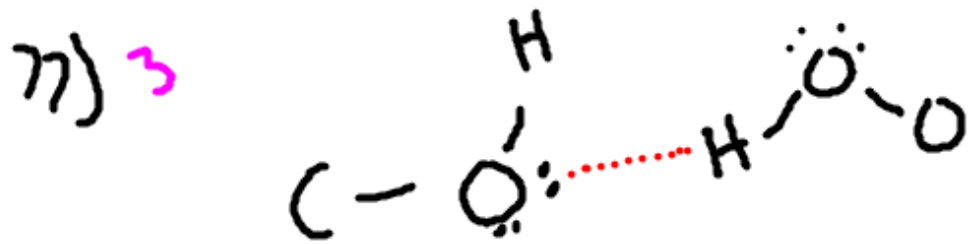
51) electronegativity = how much an atom wants a
(2) shared pair of electrons

52) (1) F

53) (3) a) C or (O) b) S or (O) c) Li or (F)



19 3.2



79) ¹ H-bonding

81) ³ Estrogen binds to the estrogen receptor and activates several genes. This gene activation also stimulates the proliferation of breast cancer cells.

82) ³ Antiestrogens block the estrogen receptor in breast cells, when antiestrogens bind to the receptor.

83) The estrogen receptor is a large protein molecule. Estradiol fits the estrogen binding site perfectly because it has a complementary shape to the binding site - a cavity within the receptor.

84)³ Dispersion forces allow estradiol to bind to the estrogen receptor site.

85)³ When Tamoxifen binds to the receptor, it changes the shape of the receptor, preventing gene activation.

86)³ Estrogen promotes the growth of strong bones; bone cells contain estrogen receptors. If estrogen is prevented from binding to these receptors, bone loss or osteoporosis will occur.

40 (3.7)

9