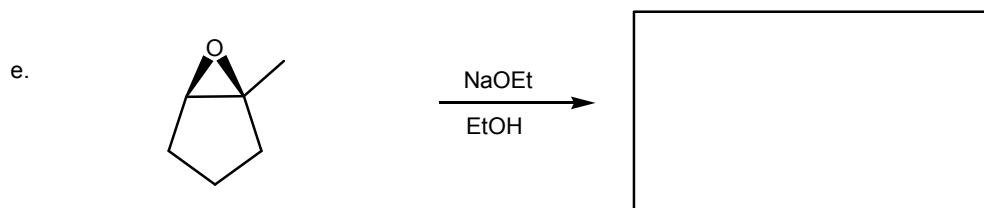
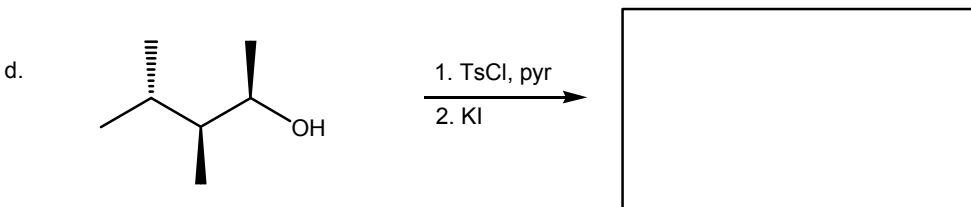
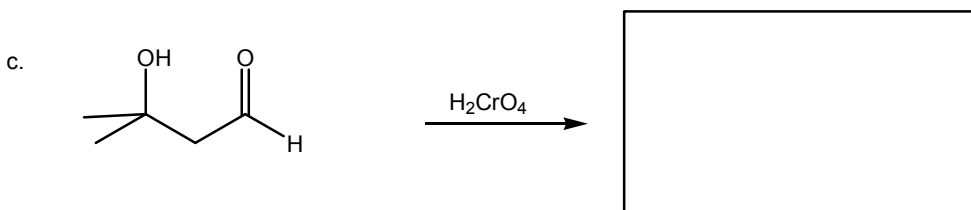
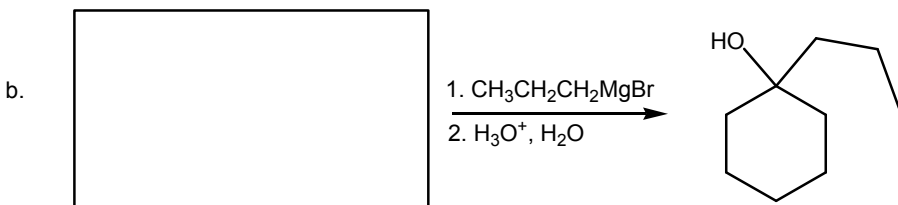
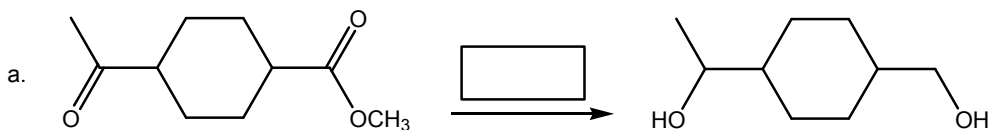


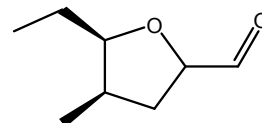
Chem 302 / Spring 2012 / Quiz 2 (20 points) / March 16, 2012

1. (14 pts) Fill in the missing reactant, reagent, or product, showing stereochemistry where appropriate.



2. (4 pts) Draw a curved arrow mechanism to illustrate the formation of the product for reaction 1e.

3. (2 pts) Circle and name the functional group(s) in the following molecule:



Name: _____

1	1A	1	2	13	14	15	16	17	18
1	H	2	He	3A	4A	5A	6A	7A	8A
1	Hydrogen 1.01	2	Helium 4.00	5	6	7	8	9	10
2	Li	Be	3	B	4	5	6	7	8
3	Lithium 6.94	Beryllium 9.01	11	Boron 10.81	Carbon 12.01	Nitrogen 14.01	Oxygen 16.00	Fluorine 19.00	Neon 20.18
4	Na	Mg	12	Al	Si	P	S	Cl	Ar
5	Sodium 22.99	Magnesium 24.31	13	Aluminum 26.98	Silicon 28.09	Phosphorus 30.97	Sulfur 32.07	Chlorine 35.45	Argon 39.95
6	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co
7	Potassium 39.10	Calcium 40.08	Scandium 44.96	Titanium 47.87	Vanadium 50.94	Chromium 52.00	Manganese 54.94	Iron 55.85	Cobalt 58.93
8	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh
9	Rubidium 85.47	Strontium 87.62	Yttrium 88.91	Zirconium 91.22	Niobium 92.91	Molybdenum 95.94	Technetium (98)	Ruthenium 101.07	Rhodium 102.91
10	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir
11	Cesium 132.91	Barium 137.33	Lanthanum 138.91	Hafnium 178.49	Tantalum 180.95	Tungsten 183.84	Rhenium 186.21	Osmium 190.23	Iridium 192.22
12	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt
13	Francium (223)	Radium (226)	Actinium (227)	Rutherfordium (261)	Dubnium (262)	Seaborgium (266)	Bohrium (264)	Hassium (269)	Meitnerium (268)
14	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy
15	Cerium 140.12	Praseodymium 140.91	Neodymium 144.24	Promethium (145)	Samarium 150.36	Europium 151.96	Gadolinium 157.25	Terbium 158.93	Dysprosium 162.50
16	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf
17	Thorium 232.04	Protactinium 231.04	Uranium 238.03	Neptunium (237)	Plutonium (244)	Americium (243)	Curium (247)	Berkelium (247)	Californium (251)
18	Ho	Er	Tm	Yb	Lu				
19	Holmium 164.93	Erbium 167.26	Thulium 168.93	Ytterbium 173.04	Lutetium 174.97				
20	Es	Fm	Md	No	Lr				
21	Einsteinium (252)	Fermium (257)	Mendelevium (258)	Nobelium (259)	Lawrencium (262)				

* If this number is in parentheses, then it refers to the atomic mass of the most stable isotope.