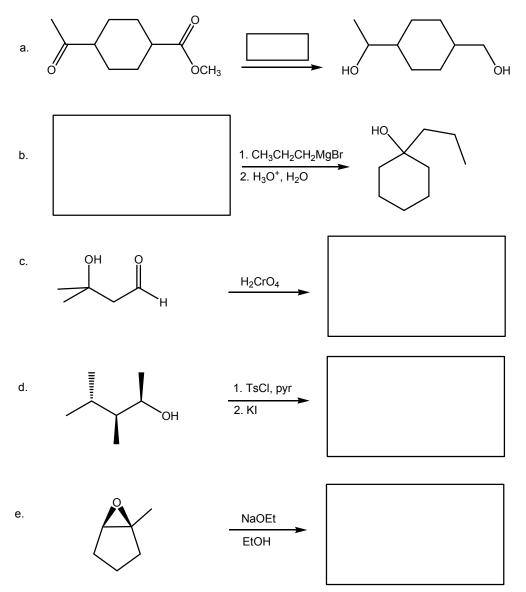
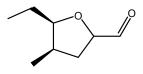
## Chem 302 / Spring 2012 / Quiz 2 (20 points) / March 16, 2012

**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: \_\_\_\_\_

	1A 1 Hydrogen 1.01 3 Li Lithium 6.94	2 2A <b>4</b> <b>Be</b> Berylium 9.01											13 3A 5 <b>B</b> Boron 10.81	14 4A 6 <b>C</b> Carbon 12.01	15 5A 7 <b>N</b> Nitrogen 14.01	16 6A 8 0 0xygen 16.00	17 7A 9 <b>F</b> Fuorine 19.00	8A 2 Helium 4.00 10 Neon 20.18
20-10-	11 Na Sodium 22.99	12 Mg Magnesium 24.31	3 3B	4 4B	5 5B	6 6B	7 7B	8	9 	10	11 1B	12 2B	13 Al Aluminum 26.98	14 Si Silicon 28.09	15 P Phosphorus 30.97	16 <b>S</b> Sulfur 32.07	17 Cl Chlorine 35.45	18 Ar Argon 39.95
	19 K Potassium 39.10	20 Ca Calcium 40.08	21 Sc Scandium 44.96	22 <b>Ti</b> Titanium 47.87	23 V Vanadium 50.94	24 Cr Chromium 52.00	25 Mn Manganese 54.94	26 Fe Iron 55.85	27 Co Cobalt 58.93	28 Ni Nickel 58.69	29 Cu Copper 63.55	30 Zn Zinc 65.39	31 Ga Gallium 69.72	32 Ge Germanium 72.61	33 As Arsenic 74.92	34 Se Selenium 78.96	35 Br Bromine 79.90	36 Kr Krypton 83.80
	37 Rb Rubidium 85.47	38 Sr Strontium 87.62	39 <b>Y</b> Yttrium 88.91	40 Zr Zirconium 91.22	41 Nb Niobium 92.91	42 Mo Molybdenum 95.94	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 <b>Rh</b> Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112,41	49 In Indium 114.82	50 <b>Sn</b> Tin 118.71	51 <b>Sb</b> Antimony 121.76	52 Te Tellurium 127.60	53   lodine 126.90	54 Xe Xenon 131.29
	55 <b>Cs</b> Cesium 132.91	56 <b>Ba</b> Barium 137.33	57 La Lanthanum 138.91	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 <b>Re</b> Rhenium 186.21	76 <b>Os</b> Osmium 190.23	77 <b>Ir</b> Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 TI Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Badon (222)
	87 Fr Francium (223)	88 Ra Radium (226)	89 Ac Actinium (227)	104 <b>Rf</b> Rutherfordium (261)	105 <b>Db</b> Dubnium (262)	106 Sg Seaborgium (266)	107 Bh Bohrium (264)	108 Hs Hassium (269)	109 Mt Meitnerium (268)						1			
If this number is in parentheses, then it refers to the atomic mass of the most stable isotope.			hen	58 Ce Cerium 140,12 90 Th Thorium 232,04	59 Pr 140.91 91 Protectinium 231.04	60 Nd Neodymium 144.24 92 U Uranium 238.03	61 Pm Promethium (145) 93 Np Neptunium (237)	62 Sm Samarium 150.36 94 Pu Plutonium (244)	63 Eu Europium 151.96 95 Am Americium (243)	64 Gd Gadolinium 157.25 96 Cm Curium (247)	65 <b>Tb</b> Terbium 158.93 97 <b>Bk</b> Berkelium (247)	66 Dy Dysprosium 162.50 98 Cf Californium (251)	67 Ho Holmium 164.93 99 Es Einsteinium (252)	68 Er Erbium 167.26 100 Fem (257)	69 Tm Thulium 168.93 101 Mendelevium (258)	70 Yb Ytterbium 173.04 102 Nobelium (259)	71 Lu Lutetium 174,97 103 Lr Lawrenciu (262)	

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