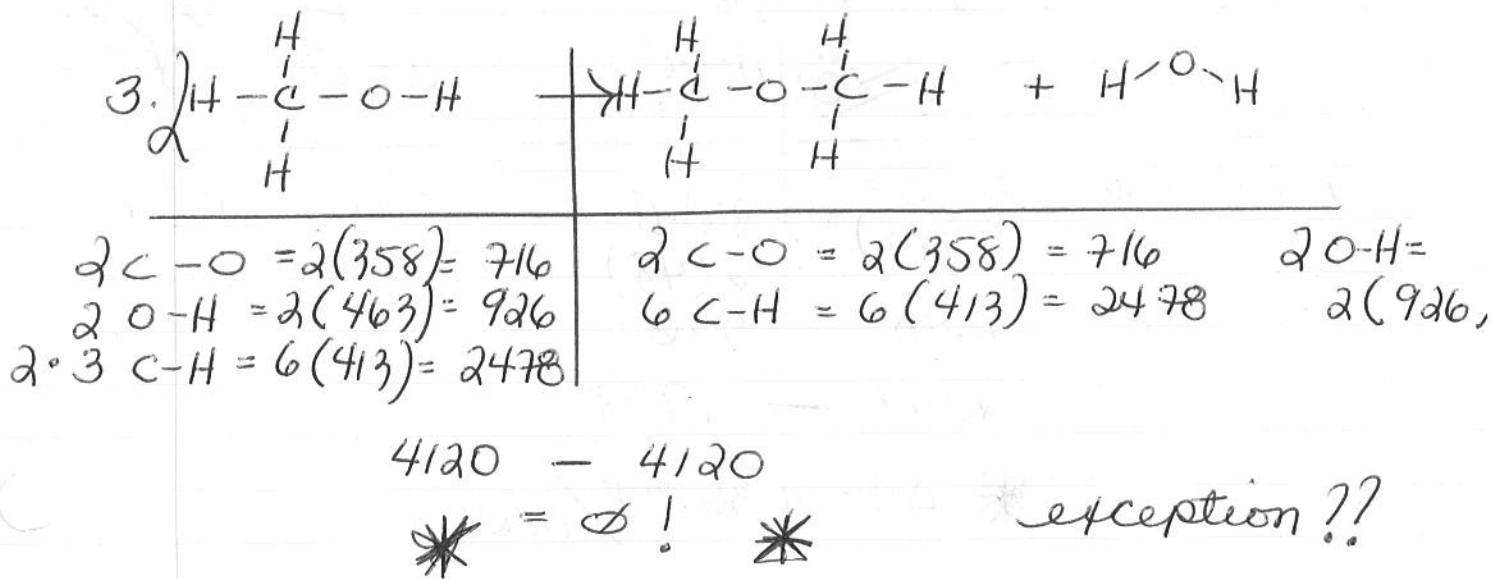
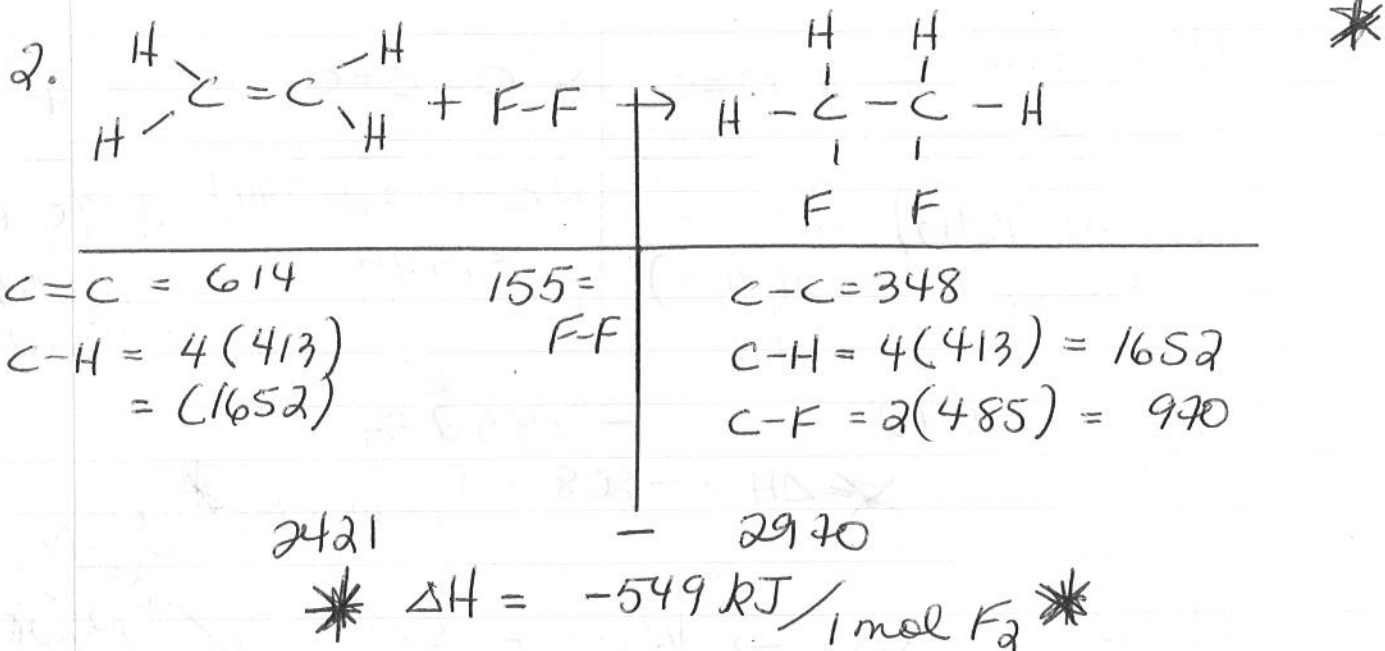
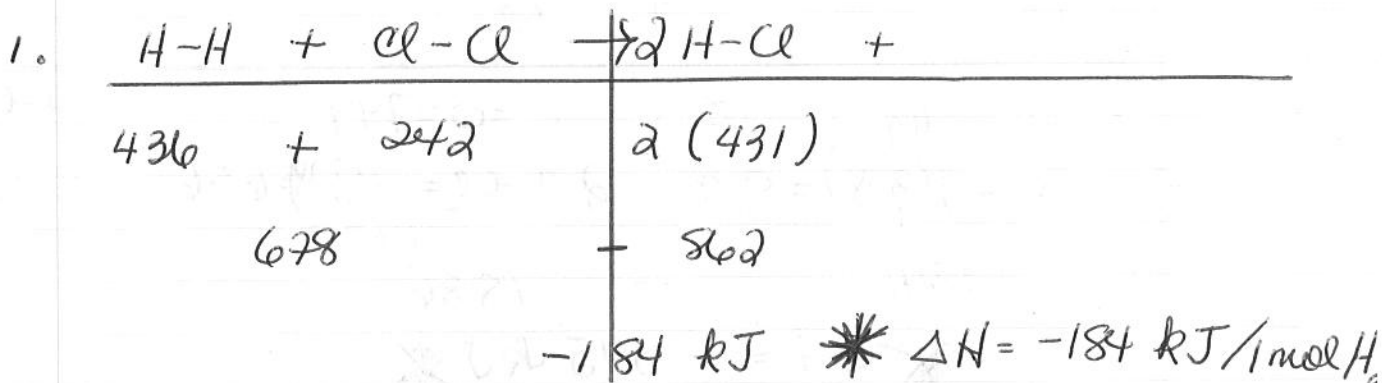


Answer Key

$\Delta H = \text{BER} - \text{BEP}$

Bond Energy Chem Worksheet 16-2

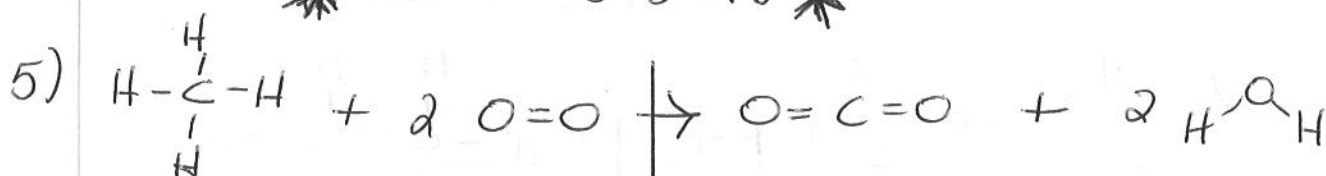




$\text{C}-\text{H} = 413$	$\text{C}=\text{O} = 799$	$\text{H}-\text{Cl} = 431$
$3 \text{ C}-\text{Cl} = 3(328) = 928$	$2 \text{ C}-\text{Cl} = 2(328) = 656$	
	<u>1455</u>	

$$1341 - 1886$$

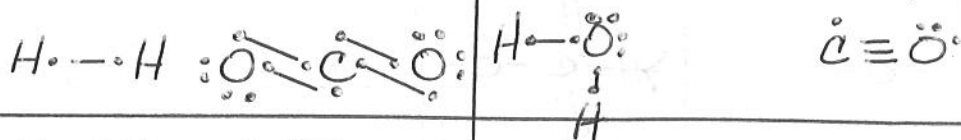
$$\Delta H = -545 \text{ kJ}$$



$4 \text{ C}-\text{H} = 4(413) = 1652$	$2 \text{ O}=\text{O} = 2(495) = 990$	$2 \text{ C}=\text{O} = 2(799) = 1598$	$2 \times 2 \text{ O}-\text{H} = 4(463) = 1852$
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$$2642 - 3450$$

$$\Delta H = -808 \text{ kJ/mol CH}_4$$



$1 \text{ H}-\text{H} = 436$	$2 \text{ C}=\text{O} = 2(799) = 1598$	$2 \text{ O}-\text{H} = 2(463) = 926$	$\text{C} \equiv \text{O} = 1072$
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$$2034 - 1998$$

$$\Delta H = +36 \text{ kJ/mol CO}$$

CO does not obey Octet Rule