Quiz 5.5 – Enthalpies of Formation

Name: _____

Question 1 (2 points)

Write the formation reaction (which is the basis for the enthalpy of formation) for each compound

- $Fe(NO_3)_2$

- $C_4H_{10}O$

Question 2 (3 points)

Give the molar enthalpy of reaction for the following reaction:

$$Fe_2O_3(s) + 3\,CO(g) \longrightarrow 2\,Fe(s) + 3\,CO_2(g)$$

You will need the following values:

Compound	ΔH_f°	Compound	ΔH_f°
$Fe_2O_3(s)$	$-824.2\ \frac{kJ}{mol}$	CO(g)	$-110.5\ \frac{kJ}{mol}$
Fe(s)	$0\ \frac{kJ}{mol}$	$CO_2(g)$	$-393.5\ \frac{kJ}{mol}$

Slaveships

By Lucille Clifton

loaded like spoons
into the belly of Jesus
where we lay for weeks for months
in the sweat and stink
of our own breathing
Jesus
why do you not protect us
chained to the heart of the Angel
where the prayers we never tell
and hot and red
as our bloody ankles
Jesus
Angel
can these be men
who vomit us out from ships
called Jesus Angel Grace of God
onto a heathen country
Jesus
Angel
ever again
can this tongue speak
can these bones walk
Grace Of God
can this sin live