**Homework (Chapter 6)**

**2020. 05. 30**

Given the following data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fe2O3(*s*) + 3CO(*g*) | → | 2Fe(*s*) + 3CO2(*g*) | *ΔHo* | = | -23 kJ |
| 3Fe2O3(*s*) + CO(*g*) | → | 2Fe3O4(*s*) + CO2(*g*) | *ΔHo* | = | -39 kJ |
| Fe3O4(*s*) + CO(*g*) | → | 3FeO(*s*) + CO2(*g*) | *ΔHo* | = | 18 kJ |

Calculate *ΔHo* for the reaction

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| FeO(*s*) + CO(*g*) | → | Fe(*s*) + CO2(*g*) | *ΔHo* | = | -11.0 kJ |

You can see the video on website.

<https://youtu.be/Yz8RTe4idMI>