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$$-396 \frac{1}{2}I_{n.1}$$

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$$O.205 \qquad O.256 \frac{1}{2}I_{n.1}$$

5) 
$$BH_{R} = -3\% - (-297 + \frac{1}{2} \cdot 0) = -99 \frac{4}{100}$$

$$DS_{2} = 0.256 - (0.248 + \frac{1}{2} \cdot 0.205) = -0.0945 \frac{47}{100}$$

$$C: BH_{R} < 0 \text{ exclher}$$

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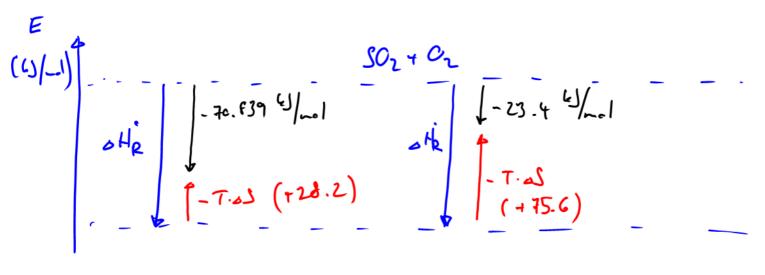
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a) 
$$3G^{\circ} = 3HR^{\circ} - T \cdot \Delta SR^{\circ}$$
  
 $28K \cdot 3G_{R}^{\circ} = -99 - 296 - 0.0945$   
 $= -99 + 28.161 = -76.839$   $4/nel$   
 $= -99 - 800 \cdot 0.0945$   
 $= -99 + 75.6 = -23.4$   $4/nel$ 





298K

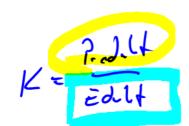
eco K

. worm (sei melder Te-p) -: d de Beitrez des Realtingentlolpre gleich de Beitrez des Realtions en Halpre?

$$\Delta G_{R}^{2} = 0 = 0 H - T.0S$$

$$= ) T = \frac{\Delta H}{\Delta S} = \frac{-99}{-0.094S} = \frac{1047 K}{1000}$$

e) OG = OH - T.OS OG = -R.T. enK-OG/RT = e  $= -\frac{76'839'J/wel}{8.314'J/wel.K.296'K}$ 



= 2.6.1012 >>0



5) 
$$64\tilde{k} = -46.11 \frac{4}{2}/_{-61}$$

$$65\tilde{k} = (0.1925) - (\frac{1}{2} \cdot 0.19161 + \frac{3}{2} \cdot 0.13065)$$

$$= -0.099325 \frac{41}{10016}$$

$$5G_{R}(298) = -46.11 - 298. - 0.099$$

$$= 16.51 \frac{4}{-1} \left( \frac{160}{200} = \frac{1}{25.702} \frac{1}{100} \right)$$

$$= 4.11 - 298. - 0.099$$

$$= 16.51 \frac{4}{-100} \left( \frac{1}{100} = \frac{1}{25.702} \frac{1}{100} \right)$$

$$= 4.25.702 \frac{4}{-100} = 1$$

c) 
$$K(T=290K) = e^{-\frac{26}{RT}}$$
  
 $= e^{-\frac{76.51}{8.344.298}} = 783.51$   
 $K(T=723K) = e^{-\frac{425401}{8.344.713}} = 0.013$   
 $K = \frac{7.344}{5.344}$   
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