

Psheet 3

$$\textcircled{7} \quad (a) \quad d_{Cu} - d_{Al} = 0 - -3.2 \mu V/K \\ = 3.2 \mu V/K$$

$$(b) \quad d_{Fe} - d_{Ni} = (13.4 - -20.4) \mu V/K \\ = 33.4 \mu V/K$$

$$(c) \quad d_p - d_n = (1000 - -1000) \mu V/K \\ = 2000 \mu V/K$$

$$12 mV = 12000 \mu V \Rightarrow (a) \quad \frac{12000}{3.2} = 3750^\circ C$$

$$(b) \quad \frac{12000}{33.4} = 359.3^\circ C$$

$$(c) \quad \frac{12000}{2000} = 6.0^\circ C \quad \Delta \text{ Highest sensitivity}$$