Atmospheric Stability Exercise

Add temperatures and direction of motion arrows to the following diagrams (use the grey boxes as a guide) and graph height vs. temperature for each. Describe the stability of each atmosphere.

1.
2. [Diagram showing temperature difference and stability levels with markers for E.L.R., M.A.L.R., D.A.L.R., and condensation level.]
E.L.R = 12 °C / km
Surface = 40 °C

M.A.L.R = 5 °C / km

D.A.L.R = 10 °C / km

Condensation level

Absolutely STABLE UNSTABLE: tendency to SINK RISE (circle one)
4. Temp Difference

- E.L.R = 8 °C / km
- Surface = 40 °C

- M.A.L.R = 6 °C / km

- Condensation level
- D.A.L.R = 10 °C / km