Estimating Time of Death Prior to Twelve Hours

Please answer the following Algor questions. Make sure to show your work. Use text pages 328-329.

Things we know:

- Average body temperature is 36°C
- For the first twelve hours the human body losses heat at a rate of 0.78°C/hour
- For the first twelve hours the total body heat loss is 9.36°C
- **Change in Temperature = (0.78°C/hour) x ETOD**
- **ETOD=**

1. What is the temperature loss for someone who has been dead for 12 hours?

2. How do you know that a victim with a body core temp of 28°C has been dead for LESS than 12 hours?

3. Approximately how long has the victim been dead (ETOD) if the body temperature was 36°C?

4. Approximately how long has the victim been dead (ETOD) if the body temperature was 35°C?

5. Approximately how long has the victim been dead (ETOD) if the body temperature was 33.1°C?

6. Approximately how long has the victim been dead (ETOD) if the body temperature was 30°C?

7. Approximately how long has the victim been dead (ETOD) if the body temperature was 28.5°C?

8. What can you tell from a body that as a body temperature of 24°C? Way can you no longer use the same rate of 0.78°C/hour?