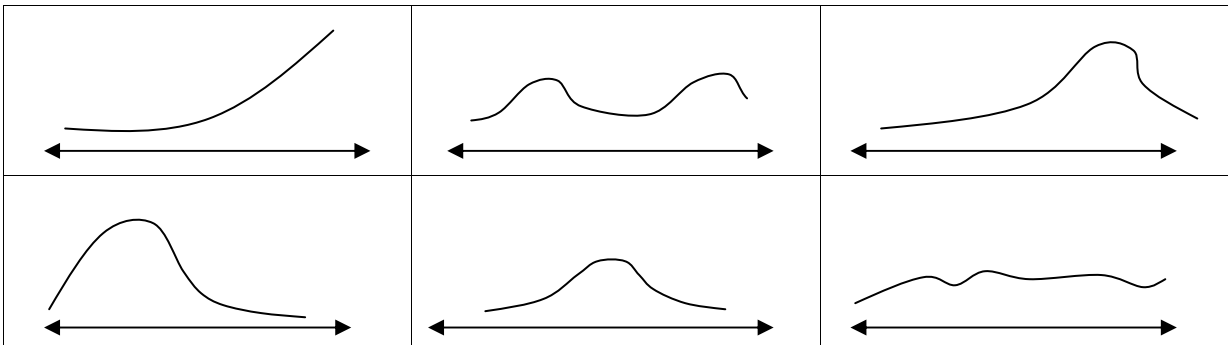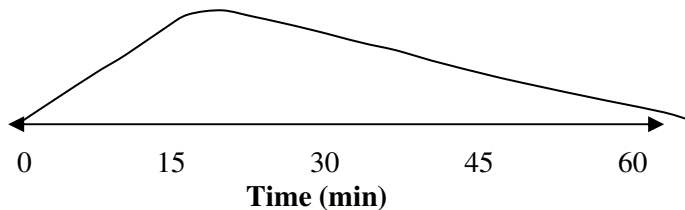# Properties of Common Distributions

1. State whether each of the following is true or false.

   a)   In a normal distribution curve, the mean, median, and mode are all at the same place.

   b)   The mean is positioned to the right in a positively skewed distribution.

   c)   A bimodal distribution graph has two modes.

   d)   In a normal distribution, the majority of scores fall within ± 1 standard deviations.

   e)   If scores are clustered at either end of the distribution, it is known as a quadratic distribution.

2. Describe how you can recognize a positively or negatively skewed frequency distribution graph.

3. Identify the following distributions as positively skewed, negatively skewed, normal, exponential, bimodal, or none of these.

4. Victims in severe pain are given a pain-relieving drug to help reduce the pain. Over time, the drug wears off. If the amount of drug in a person's system is measured over 15-min intervals, the distribution would be similar to the graph below.

   a)   Identify the type of distribution.

   b)   Estimate the time required for the victim to experience maximum pain relief.