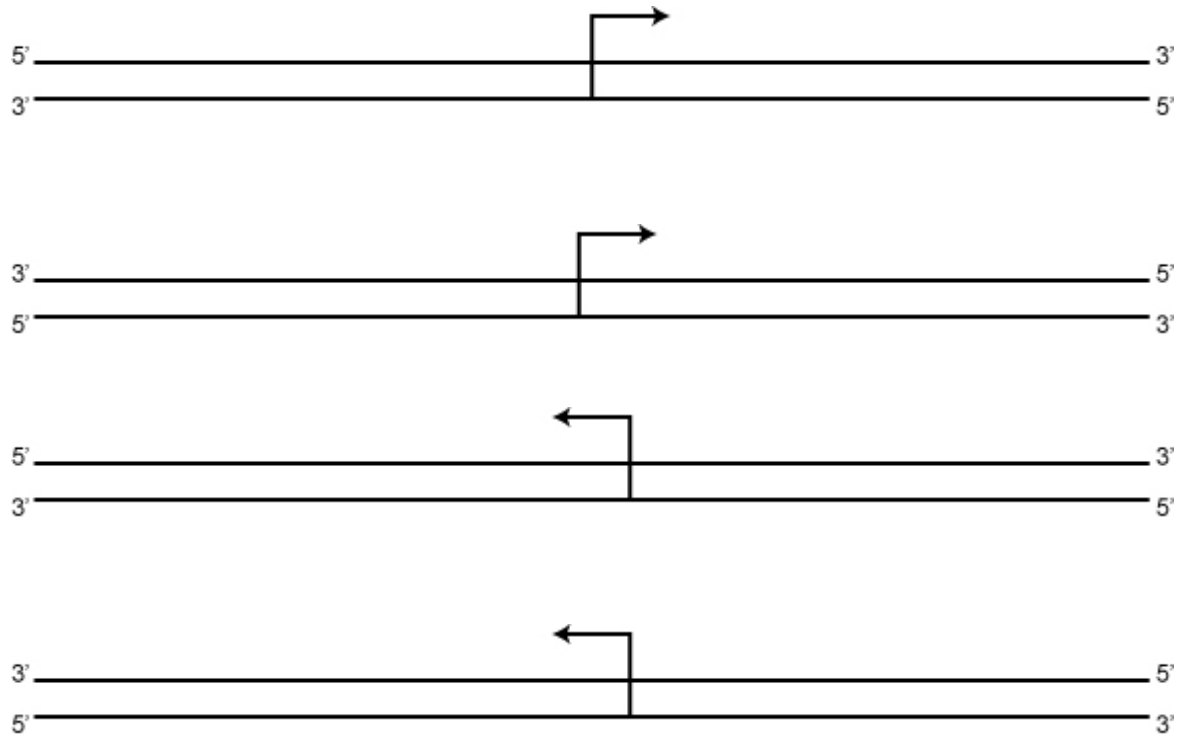


2. Each of the four drawings below represent a double-stranded DNA sequence. The arrow shows the location of the transcription start site and direction that RNA polymerase travels along a gene. Write the letters corresponding to the *eukaryotic* gene elements listed below on each of the diagrams where they would appear relative to the transcription start.



- a. an intron that interrupts the open reading frame
- b. 3'UTR
- c. promoter
- d. stop codon
- e. nucleotide to which the cap is added
- f. start codon
- g. terminator
- h. 5' UTR
- i. polyA addition site
- j. ribosome binding site

Also, mark which strand is the template strand and which strand is the mRNA-like strand for each.