1. Consider the 10-vertex graph G below. What type of graph property does the 6-vertex subgraph of red vertices and edges have relative to graph G?

(3 points)

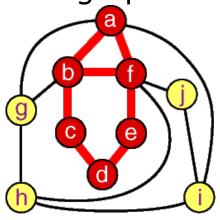
A. spanning

√ B. induced

C. complete

D. none of the above

2. How many distinct K_3 subgraphs are in the 10-vertex graph G below?



(3 points)

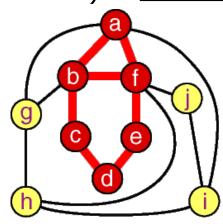
A. 0

B. 1

√C.2

D.3

3. Within the 10-vertex graph G shown below, consider the 4-vertex subgraph G_1 defined by the vertex set $V_1 = \{f,h,i,j\}$. Which of the following subgraphs (defined by their vertex sets) is <u>isomorphic</u> to G_1 ?



(3 points)

$$A.V_2=\{a,b,e,f\}$$

B.
$$V_3 = \{a, b, g, h\}$$

C.
$$V_4 = \{a,b,f,j\}$$

$$\checkmark$$
 D. $V_5 = \{a,g,h,i\}$