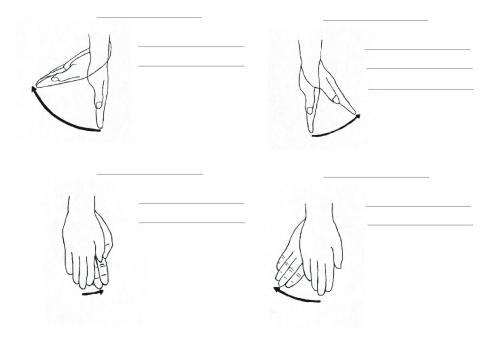
MSI ANATOMY LAB 11: POST-LAB EXERCISES Anterior (Flexor) Forearm and Palm of Hand

1. List the muscles contained within the anterior compartments of the forearm. Identify the named nerve that innervates each muscle:

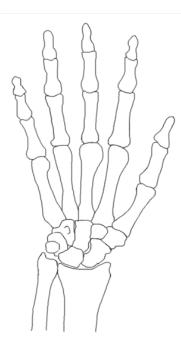
Anterior compartment of forearm:

Muscle	Innervation	

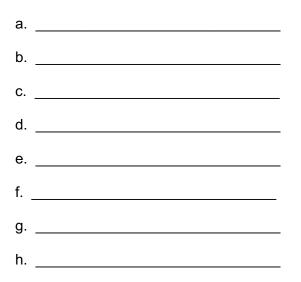
2. In the diagrams below, name the movement illustrated (top blank line) and identify the muscles involved in each (number of blank lines indicates number of muscles – movement is from anatomical position; see Upper Extremity Muscle Chart).

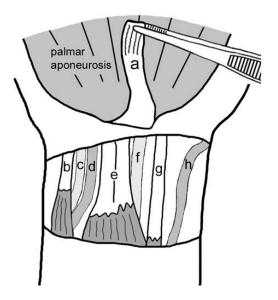


3. In the diagram below, draw in the location of the radiocarpal joint and the midcarpal joint.

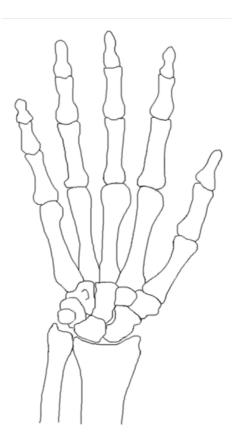


4. In the diagram, identify the labeled structures:





5. In the diagram below, draw in the locations of insertion of the flexor digitorum superficialis, flexor digitorum profundus and the flexor hallucis longus. Based upon these insertions, list all of the joints acted upon by each muscle (Hint: identify all of the joints crossed by each muscle. Also, consider MCP joints II-V as a group; MP joints II-v as a group, etc.).



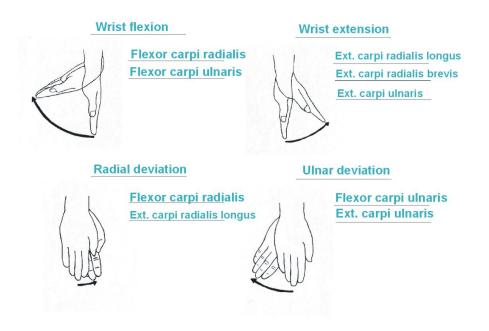
Joints acted upon by FDS	Joints acted upon by FDP	Joints acted upon by FPL

Answers

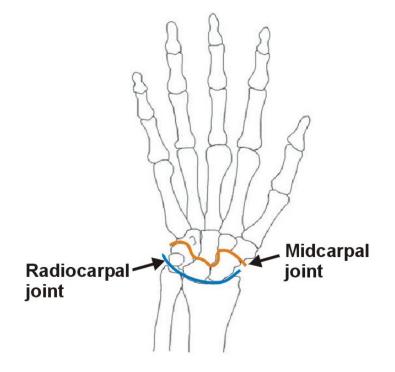
1. List the muscles contained within the anterior compartments of the forearm. Identify the named nerve that innervates each muscle:

Anterior compartment of forearm:			
Muscle	Innervation		
Pronator teres	Median		
Flexor carpi radialis	Median		
Palmaris longus	Median		
Flexor carpi ulnaris	Ulnar		
Flexor digitorum superficialis	Median		
Flexor digitorum profundus	Medial half = Ulnar Lateral half = Ant. interosseous		
Flexor pollicis longus	Anterior interosseous		
Pronator quadratus	Anterior interosseous		

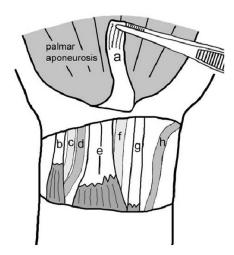
2. In the diagrams below, name the movement illustrated (top blank line) and identify the muscles involved in each (number of blank lines indicates number of muscles – movement is from anatomical position; see Upper Extremity Muscle Chart).



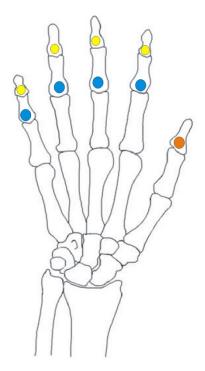
3. In the diagram below, draw in the location of the radiocarpal joint and the midcarpal joint.



- 4. In the diagram, identify the labeled structures:
 - a. Palmaris longus
 - b. Flexor carpi ulnaris
 - C. Ulnar nerve
 - d. Ulnar artery
 - e. Flexor digitorum superficialis
 - f. Median nerve
 - g. Flexor carpi radialis
 - h. Radial artery



5. In the diagram below, draw in the locations of insertion of the flexor digitorum superficialis, flexor digitorum profundus and the flexor hallucis longus. Based upon these insertions, list all of the joints acted upon by each muscle (Hint: identify all of the joints crossed by each muscle. Also, consider MCP joints II-V as a group; MP joints II-v as a group, etc.).



Acted upon by FDS	Acted upon by FDP	Acted upon by FPL
Radiocarpal	Radiocarpal	Radiocarpal
Midcarpal	Midcarpal	Midcarpal
Carpometacarpal joints II-V	Carpometacarpal joints II-V	Carpometacarpal joint I
MP joints II-V	MP joints II-V	MP joint I
PIP joints II-V	PIP joints II-V	IP joint of thumb
	DIP joints II-V	

Note: Digits are numbered here for convenience only you should always refer to them by their names.