

## Chapter 9, Joints

### “Apply What You Know” Answers

- p. 279—In the sacrum and coccyx, the vertebrae fuse together by adulthood, thus becoming synostoses.
- p. 289—At the shoulder joint, flexion raises the upper limb anteriorly, abduction directs it laterally, extension moves it posteriorly, and adduction brings it back to the zero position; the combined effect of all these movements is circumduction.
- p. 296—The glenoid labrum at the shoulder is similar to the acetabular labrum of the hip. Both locations are ball-and-socket joints where the labrum deepens the socket and stabilizes the joint.
- p. 297—The acromion prevents hyperextension of the elbow, thus serving the same purpose as the ACL of the knee.