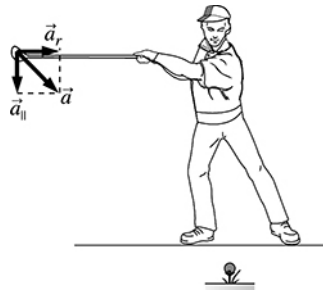


8.10.



The golfer is swinging the club in circular motion. The club is speeding up as it swings. This motion requires a linear acceleration in the direction of motion of the club to speed it up and a centripetal acceleration to maintain circular motion. The vector sum yields a total acceleration pointing approximately toward the golfer's feet (c), as shown in the figure.