FIGURE 30
Diagram of the amniote egg of the chick, showing the development of membranes enfold ing the embryo. (A) 3-day incubation. (B) 7-day incubation. The origin of the membranes will be detailed in Chapter 6. Note that the yolk is eventually surrounded by the membranes derived from the embryo (to absorb nutrients) and that other membranes extend from the embryo to the shell (where they will exchange oxygen and carbon dioxide and obtain calcium from the shell). The ectoderm eventually covers the outside of the embryo and extends to the shell. The endoderm becomes the gut and encircles the yolk while the mesoderm (color) extends to cover these layers and provide the blood vessels to bring the extraembryonic material into the embryo.