Figure 3

With slightly higher gains, the blimp quickly converges to heights between 140 and 160 cm.

Figure 2

Somewhat high oscillations, slowly converging on the optimal value.

Figure 1

A low proportional gain prevents the blimp from reaching optimal altitude

Figure 4

With a low derivative gain, the oscillations slowly increase in magnitude away from optimality.

Figure 5

With a high proportional gain, oscillations quickly and uncontrollably increase.

Figure 6

A high derivative gain balances the high proportional gain, but original oscillations are too great.

Figure 7

Low derivative gain prevents the blimp from converging to optimal altitude.