解 设π为着色函数,色集$C=\{1,2,\cdots,5\}$,着色过程如下:

(1) $\pi(v_1)=1, C(v_2)=\{1\}$, $C\backslash C(v_2)=\{2,\cdots,5\}$;

(2) $\pi(v_2)=2, C(v_3)=\{1,2\}$, $C\backslash C(v_3)=\{3,\cdots,5\}$;

(3) $\pi(v_3)=3, C(v_4)=\{3\}$, $C\backslash C(v_4)=\{1,2,4,5\}$;

(4) $\pi(v_4)=1, C(v_5)=\{1\}$, $C\backslash C(v_5)=\{2,\cdots,5\}$;

(5) $\pi(v_5)=2, C(v_6)=\{1,2,3\}$, $C\backslash C(v_6)=\{4,5\}$;

(6) $\pi(v_6)=4$.