

## Algebraic Topology Problem Set 5 — Solutions

**Q1:** Put  $g(x) = f(x)/|f(x)|$ ; as  $f(x)$  is never zero, this gives a well-defined, continuous map  $g: X \rightarrow \mathbb{R}$ . If  $f(x) > 0$  then  $g(x) = 1$ , and if  $f(x) < 0$  then  $g(x) = -1$ ; thus  $g(x)^2 = 1$  for all  $x$ . Next, if  $t \in I$  and  $x \in X$  we certainly have  $(1-t) \geq 0$  and  $t|f(x)| \geq 0$ . The first of these is only zero when  $t = 1$ , and the second is only zero when  $t = 0$ , so the sum is never zero. We can thus define a continuous map  $h: I \times X \rightarrow \mathbb{R}$  by  $h(t, x) = f(x)/((1-t) + t|f(x)|)$ . This is evidently a homotopy between  $f$  and  $g$ .

**Q2:**

- (a) Define  $h: I \times I \rightarrow X$  by  $h(s, t) = \alpha(st)$ . Then  $h(1, t) = \alpha(t)$  and  $h(0, t) = \alpha(0) = c_{u(0)}(t)$  so  $h$  is a homotopy between  $u$  and  $c_{u(0)}$ .
- (b) We have seen that  $u \simeq c_{u(0)}$  and  $v \simeq c_{v(0)}$  so it will suffice to show that  $c_{u(0)} \simeq c_{v(0)}$ . As  $X$  is path-connected, we can choose a path  $\alpha$  from  $u(0)$  to  $v(0)$ . We can then define  $k: I \times I \rightarrow X$  by  $k(s, t) = \alpha(st)$ . We have  $k(0, t) = \alpha(0) = c_{u(0)}(t)$  and  $k(1, t) = \alpha(t) = v(0) = c_{v(0)}(t)$ , so  $k$  is the required homotopy.

**Q3:**

- (a) The three pictures show  $u$ ,  $v$  and  $w$ .



- (b) Just use the linear homotopy:  $h(t, x, y) = (1-t)u(x, y) + tv(x, y)$ .
- (c) Suppose that  $(x, y) \in S^1$ . If  $u(x, y) \in S^1$  then we must have  $y/2 = 0$  and  $(x/2 + 1)^2 + 0^2 = 1$ . The first of these means that  $y = 0$ , and  $\{x, y\} \in S^1$  so  $x = \pm 1$ . This is inconsistent with the equation  $(x/2 + 1)^2 + 0^2 = 1$ , so we cannot have  $u(x, y) \in S^1$  after all, so we must have  $u(x, y) \in \mathbb{R}^3 \setminus S^1 = X$ . Essentially the same argument works for  $v$  and  $w$ .
- (d) Define  $k: I \times S^1 \rightarrow \mathbb{R}^3$  by

$$k(t, x, y) = \text{rotation of } u(x, y) \text{ through angle } \pi t \text{ around the } z\text{-axis} \\ = [\cos(\pi t)(x/2 + 1), \sin(\pi t)(x/2 + 1), y/2].$$

If  $k(t, x, y) \in S^1$  then we must have  $y/2 = 0$  and  $(\cos(\pi t)(x/2 + 1))^2 + (\sin(\pi t)(x/2 + 1))^2 = 1$ . These equations reduce easily to  $y = 0$  and  $(x/2 + 1)^2 = 1$  so  $x = 0$  or  $x = -4$ . We also have  $x^2 + y^2 = 1$  because  $\{x, y\} \in S^1$ . This is clearly inconsistent, so we must have  $k(t, x, y) \notin S^1$ , so  $k$  is a map from  $I \times S^1$  to  $X$ .

As  $(\cos(0), \sin(0)) = (1, 0)$  we have  $k(0, x, y) = u(x, y)$ . As  $(\cos(\pi), \sin(\pi)) = (-1, 0)$  we have  $k(1, x, y) = v(x, y)$ , so  $k$  is the required homotopy between  $u$  and  $v$ .

- (e) Define

$$m(t, x, y) = v(\text{rotation of } (x, y) \text{ through } \pi t) \\ = v(\cos(\pi t)x - \sin(\pi t)y, \sin(\pi t)x + \cos(\pi t)y).$$

As  $m(t, x, y) = v(\text{something})$  we have  $m(I \times S^1) \subseteq v(S^1)$ . In particular, we have  $m(I \times S^1) \subseteq X$ , so  $m: I \times S^1 \rightarrow X$ . We also have  $m(0, x, y) = v(x, y)$  and  $m(1, x, y) = v(-x, -y) = u(x, y)$ , so  $m$  is a homotopy between  $v$  and  $u$ . The equation  $v(x, y) = m(0, x, y)$  also tells us that  $v(S^1) \subseteq m(I \times S^1)$ , so  $m(I \times S^1) = v(S^1)$  as required.

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**RJ Alexander**



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web pam ayres is celebrated in the uk and far beyond as a favourite radio tv and stage entertainer it is impossible to read her

comic poems without hearing her voice in your head she says that she wrote them to be proclaimed out loud with gusto pam ayres was born in 1947 in berkshire and left farringdon secondary modern school at the age of 15

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web pam ayres mbe born 14 march 1947 is a british writer of humorous poetry pam ayres was born at stanford in the vale in the english county of berkshire now oxfordshire after leaving farringdon secondary school at the age of 15 she joined the civil service as a clerical assistant

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