CORRIGENDUM

to the paper

MACBEATH'S CURVE AND THE MODULAR GROUP

by K. WOHLFAHRT

On p. 244 of *Glasgow Math. J.* 27 (1985) on the right hand side of one of the 6 equations characterizing the 4 fixed points of the involution v a sign error has occurred. The relevant equation should read

 $y_0 y_3 y_5 y_6 = -1$,

or the points would not lie on the curve.

Correcting the error unfortunately invalidates the model of an elliptic curve given in \$6, which therefore has to be re-evaluated. First we find, in the notation of the paper,

$$2f(x) = ((r+1)/(R+2))^2$$
.

Then z = (r+1)/(R+2) satisfies

$$7X^4 + 4X^3 - 6X^2 - 4X + 3 = 0,$$

whence

 $49X^4 - 100X^3 + 110X^2 - 52X + 9 = 0$

is an equation for z^2 .

This leads to the Weierstrass normal form

 $Y^2 = 4X^3 - 756X + 756$

of the curve and to its minimal model

 $Y^2 = X^3 - X^2 - 2X + 1$

of discriminant $\Delta = 784$ and absolute invariant J = 28/27.

Glasgow Math. J. 28 (1986) 241.