

**Shim Function Table:**

Shim	Function	Gradient Order	Interaction Order
$Z^0$	1	0	0
$Z^1$	$z$	1	0
$Z^2$	$2z^2 - (x^2 + y^2)$	2	1
$Z^3$	$z [2z^2 - 3(x^2 + y^2)]$	3	2
$Z^4$	$8z^2 [z^2 - 3(x^2 + y^2)] + 3(x^2 + y^2)^2$	4	2
$Z^5$	$48z^3 [z^2 - 5(x^2 + y^2)] + 90z(x^2 + y^2)^2$	5	2
X	$x$	1	0
Y	$y$	1	0
ZX	$zx$	2	2
ZY	$zy$	2	2
XY	$xy$	2	1
$X^2 - Y^2$	$x^2 - y^2$	2	1
$Z^2X$	$x [4z^2 - (x^2 + y^2)]$	3	2
$Z^2Y$	$y [4z^2 - (x^2 + y^2)]$	3	2
ZXY	$zxy$	3	2
$Z(X^2 - Y^2)$	$z(x^2 - y^2)$	3	2
$X^3$	$x(x^2 - 3y^2)$	3	1
$Y^3$	$y(3x^2 - y^2)$	3	1