$2x^2+$
$x-$
$15=$
$0x^*=$
2.5
$x_{k+1}=$
$15-$
$x_k^2, k=$
$0, 1, 2, \cdots x_0=$
2
$x_{k+1}=$
$\frac{15}{2x_k+1}, k=$
$0, 1, 2, \cdots x_0=$
2
$x_{k+1}=$
x_k-
$\frac{2x_k^2+x_k-15}{4x_k+1}, k=$
$0, 1, 2, \cdots x_0=$
2
$x_1, x_2, \cdots, x_k, \cdots,$
$x=$
$\phi(x)x_k+$
$1=$
$\phi(x_k)\{x_k\}\lim_{k\to\infty} x_k=$
$x^*x^*\phi$

$$x_{k+1}=15-x_k^2, k=0, 1, 2, \cdots x_0=2$$

$$x_1=11$$

$$x_2=-106$$

$$x_3=-11221$$

$$x_4=-125910826$$

$x_{k+1}=$
$15-$
$x_k^2, k=$
$0, 1, 2, \cdots x_0=$
2

$$x_{k+1}=\frac{15}{2x_k+1}, k=0, 1, 2, \cdots x_0=2$$

$$x_1=3.0$$

$$x_2=2.142857142857143$$

$$x_3=2.8378378378378377$$

$$x_4=2.2469635627530367$$

$$x_5=2.7302873986735445$$

$$x_6=2.3217748374586518$$

$$x_7=2.6579016512723084$$

$$x_8=2.374994799783671$$

$$x_9=2.6087003707152228$$

$$x_{10}=2.4125837506412577$$

$$\cdots$$

$$x_{50}=2.4999395640135855$$

$x_{k+1}=$
$\frac{15}{2x_k+1}, k=$
$0, 1, 2, \cdots x_0=$
2

$$x_{k+1}=x_k-\frac{2x_k^2+x_k-15}{4x_k+1}, k=0, 1, 2, \cdots x_0=2$$

$$x_1=2.5555555555555554$$

$$x_2=2.5005500550055006$$

$$x_3=2.5000000550000006$$

$$x_4=2.5000000000000004$$

$$x_5=2.5$$

$$x_6=2.5$$

$x_{k+1}=$