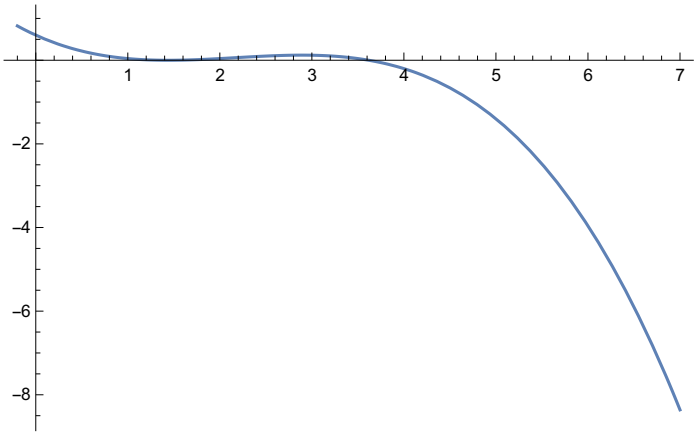
```
Plot[.6 (1 + n^2 (1 - 1 / 7.5) - n^3 / 7.5) - n == 0, {n, -.2, 7}]
```




```
FindRoot[.6 (1 + n^2 (1 - 1 / 7.5) - n^3 / 7.5) - n == 0, {n, 1.}]
```

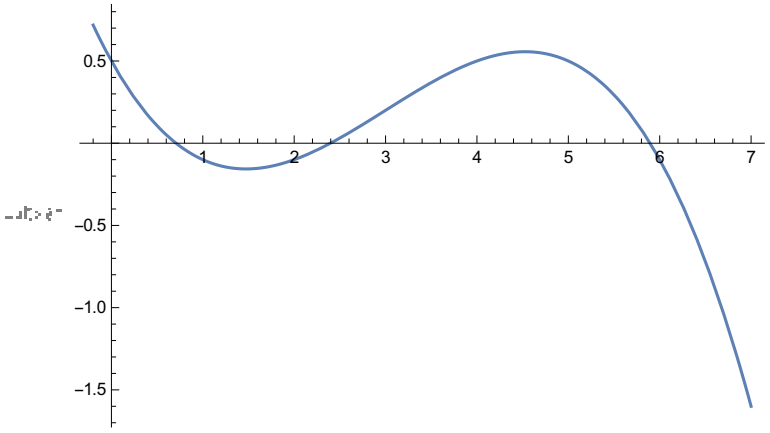
FindRoot: The line search decreased the step size to within tolerance specified by AccuracyGoal and PrecisionGoal but was unable to find a sufficient decrease in the merit function. You may need more than MachinePrecision digits of working precision to meet these tolerances.

```
{n → 1.38197}
```

```
FindRoot[.6 (1 + n^2 (1 - 1 / 7.5) - n^3 / 7.5) - n == 0, {n, 4.}]
```

```
{n → 3.61803}
```

```
Plot[.5 (1 + n^2 (1 - 1 / 10) - n^3 / 10) - n == 0, {n, -.2, 7}]
```




```
FindRoot[.5 (1 + n^2 (1 - 1 / 10) - n^3 / 10) - n == 0, {n, .5}]
```

```
{n → 0.707598}
```

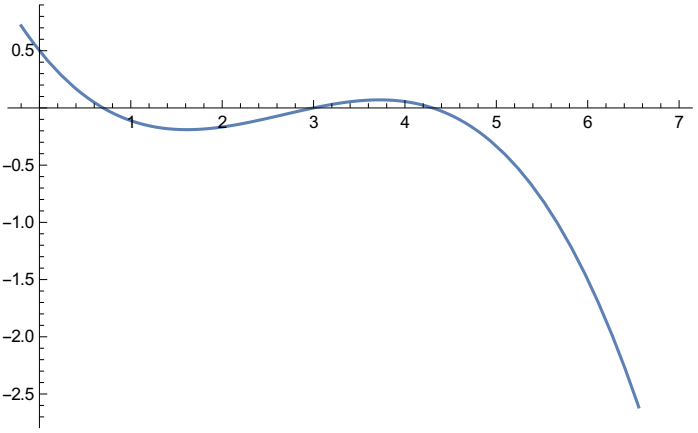
```
FindRoot[.5 (1 + n^2 (1 - 1 / 10) - n^3 / 10) - n == 0, {n, 2.2}]
```

```
{n → 2.3973}
```

```
FindRoot[.5 (1 + n^2 (1 - 1 / 10) - n^3 / 10) - n == 0, {n, 6}]
```

```
{n → 5.89511}
```

```
In[] := Plot[.5 (1 + n^2 (1 - 1 / 9) - n^3 / 9) - n == 0, {n, -.2, 7}]
```




```
In[] := FindRoot[.5 (1 + n^2 (1 - 1 / 9) - n^3 / 9) - n == 0, {n, .5}]
Out[] = {n → 0.697224}

In[] := FindRoot[.5 (1 + n^2 (1 - 1 / 9) - n^3 / 9) - n == 0, {n, 3}]
Out[] = {n → 3.}

In[] := FindRoot[.5 (1 + n^2 (1 - 1 / 9) - n^3 / 9) - n == 0, {n, 5}]
Out[] = {n → 4.30278}
```