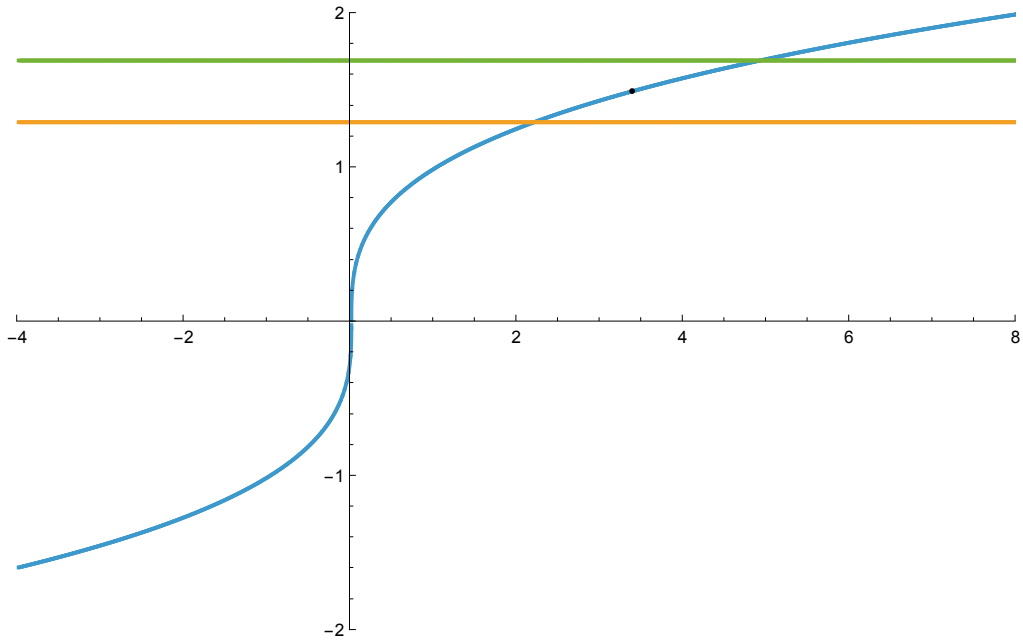


```
In[79]:= f[x_] := Sign[x] Abs[x]1/3 (* This is how to do x1/3 in Mathematica *)
```

```
In[84]:= Show[Plot[{f[x], 1.3, 1.7}, {x, -4, 8}, PlotRange → {{-4, 8}, {-2.0, 2.0}},  
PlotPoints → 50000], Graphics[Point[{3.375, 1.5}]]]
```

Out[84]=



The question is, if you want  $|f(x) - 1.5| < 0.2$ , what range must  $x$  be in?

It will help to know these cubes:

```
In[81]:= 1.73
```

Out[81]=

4.913

```
In[82]:= 1.33
```

Out[82]=

2.197

Knowing those cubes tells you that  $f(4.913) = 1.7$  and  $f(2.197) = 1.3$ .