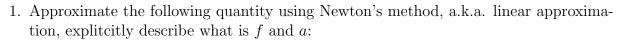
Math 199 CD2: Linear Approximation

October 5, 2021



(a)
$$\sqrt{16.2}$$

(b)
$$\sin(0.1)$$

(c)
$$\sqrt[3]{124}$$

(d)
$$\sin(\pi/3)$$

2.	A cubical box is to be built so that it holds 125 cubic inches. How precisely should the
	edge be made so that the volume will be correct to within 3 cubic inches?

3. A solid steel cylinder has a radius of 2.5 cm and a height of 10 cm. A tight-fitting sleeve is to be made that will extend the radius to 2.6cm. Find the amount of steel needed for the sleeve.