$$g'(x) = \sqrt{x^{2} + f(x)}$$

$$= (x^{2} + f(x))^{1/2}$$

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$$= \frac{1}{2}(x^{2} + f(x))^{-\frac{1}{2}} \frac{1}{2} \frac{1}{2}(x^{2} + f(x))$$

$$= \frac{1}{2}(x^{2} + f(x))^{-\frac{1}{2}}(2x + f(x))$$

$$= \frac{2x + f'(x)}{2\sqrt{x^{2} + f(x)}}$$

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$$= \frac{1}{2}(x^{2} + y)^{1/2}$$

$$= \frac{1}{2}$$

$$Z = \sqrt{x^{2} + y}$$

$$= (x^{2} + y)^{1/2}$$

$$= \frac{1}{2}(x^{2} + y)^{-1/2} \frac{d}{dx}(x^{2} + y)$$

$$= \frac{1}{2}(x^{2} + y)^{-1/2} (2x + \frac{dy}{dx})$$

$$= \frac{2x + \frac{dy}{dx}}{2\sqrt{x^{2} + y}}$$

$$= \frac{dz}{2\sqrt{x^{2} + y}}$$

$$\begin{bmatrix} a' \end{bmatrix} = \left(0 = 2x + \frac{dy}{dx} \right)$$

$$\begin{bmatrix} b' \end{bmatrix} = \left(0 = 2x + \frac{dy}{dx} \right)$$

$$\begin{bmatrix} c' \end{bmatrix} = \left(\frac{dy}{dx} = -2x \right)$$