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$$1- y' = \arcsen(2x^2 + 2) = \frac{4x}{\sqrt{1 - (2x^2 + 2)^2}} = \frac{4x}{\sqrt{1 - 4x^4 + 4}}$$

$$2- y' = \operatorname{arccsc} x^3 = \frac{-1}{(\sqrt{x^2})^2 - 1} = \frac{-1}{\sqrt{3x^2 - 1}} = -\frac{1}{\sqrt{3x^2 - 1}}$$

$$3- y' = \operatorname{arcTang}(7x^5 + 1) = \frac{343x^2}{1 + (7x^3 + 1)^2} = \frac{343x^2}{1 + 49x^5 + 1}$$

$$4- y' = \arcsen(9x^3 + 8) = \frac{729}{\sqrt{1 - (9x^3 + 8)^2}} = \frac{729}{\sqrt{1 - 81x^5 + 64}}$$

$$5- y' = \operatorname{arccsc} 2x^9 = \frac{512x^8}{512x^8 \sqrt{(2x^4)^2 - 1}} = \frac{-512x^8}{512x^8 \sqrt{4x^{11} - 1}} = -\frac{1}{\sqrt{4x^{11} - 1}}$$

$$6- y' = \operatorname{arcTang} \sqrt{2x} = \frac{(2x)^{1/2}}{1 + (\sqrt{2x})^2} = \frac{(2x)^{1/2}}{1 + 2x}$$

$$7- y' = \operatorname{arccsc} 4x^9 = \frac{262,144}{4x^9 \sqrt{(4x^9)^2 - 1}} = \frac{262,144}{4x^9 \sqrt{16x^{18} - 1}}$$

$$8- y' = \operatorname{arctang} 9x^8 = \frac{43,046,721x^7}{1 + (9x^3)^2} = \frac{43,046,221x^7}{1 + 81x^{10}}$$

$$9- y' = \operatorname{arccsc} 12x^9 = \frac{5,159,780,352}{5,159,780,352 \sqrt{(12x^9)^2 - 1}} = \frac{-1}{\sqrt{144x^{18} - 1}}$$

$$10- y' = \operatorname{arcTang} \sqrt{2x^3} = \frac{2x}{1 + (\sqrt{2x^3})^2} = \frac{2x}{1 + 2x^3}$$

- Shady Mariell Lopez Enamorado.