



- Materia: CALCULO
- Carrera: TEC. ENFERMERIA
- Semestre/
- BRENDA MAYARI
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$$1.- y = \arcsin(2x^2 + 2) \quad \frac{1}{\sqrt{1-u^2}} \quad \frac{du}{dx}$$
$$\frac{2x^2}{\sqrt{2-4x^2}}$$

$$2.- y = \arccsc \sqrt{x^3}$$
$$\frac{1}{|u| \sqrt{u^2 - 1}}$$

$$\frac{x^3}{(x^3) \sqrt{x^5 - 1}}$$

$$3.- y = \arctang(7x^3 + 1)$$

$$\frac{u}{1+u^2}$$

$$\frac{7x^3}{1+49x^3}$$

$$4. y = \arcsin(9x^3 + 8)$$

$$y' = \frac{9x^3}{\sqrt{8 - 27x^3}}$$

$$\frac{u'}{\sqrt{1-u^2}}$$

$$5. y' = \operatorname{arccsc}(2x^9)$$

$$y' = \frac{-u}{u\sqrt{u^2-1}}$$

$$y' = \frac{-1}{2x^9\sqrt{2x^9-1}}$$

$$6. y' = \operatorname{arctang} \sqrt{2x}$$

$$y' = \frac{-u}{1+u^2}$$

$$y' = \frac{-2x}{1+4x}$$

$$1+4x$$

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$$7. y = \arccos 4x^9$$

$$y' = \frac{0'}{\sqrt{0^2 + 1}}$$

$$y' = \frac{-36x^8}{4x^9 \sqrt{16x^{18} - 1}}$$

$$5. y' =$$

$$y' = \frac{0'}{0}$$

$$y' = \frac{-2}{-2}$$

$$8. y = \arctan 9x^8$$

$$\frac{0'}{1 + 0^2}$$

$$\frac{9x^8}{1 + 18x^8}$$

$$6. y' =$$

$$9. y = \operatorname{arccsc}(12x^9)$$

$$y' =$$

$$1 + y = \frac{-0'}{|0| \sqrt{0^2 - 1}}$$

$$\frac{12x^9}{(12x^9) \sqrt{144x^{18} - 1}}$$

$7-27x^3$

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$$10. y' = \text{arc tang } \sqrt{2x^3}$$

cs

$$\frac{u}{1+u^2}$$

$$\frac{2x^3}{1+4x^5}$$