

Examen de calculo



- Materia: calculo
- Carrera: tec. Enfermería
- Semestre/
- Brenda Mayari Alvarado bravo
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1. $y = \operatorname{arccot} 2x^3$

$$\frac{-u}{1+u^2} \quad y = \frac{-4x^2}{1+64x^6} \quad (4x^2)^3$$

2. $y = \operatorname{arccsc} 10x^3$

$$\frac{-u'}{u\sqrt{u^2-1}} \quad x = \frac{-80x^3}{16x^8\sqrt{100x^6-1}}$$

3. $y = \arctan 30x^8$

$$\frac{u}{1+u^2} \quad x = \frac{240}{1+900x^{16}}$$

4. $y = \arctan 15x^3$

$$\frac{u}{1+u^2} \quad y = \frac{45x^2}{1+225x^6}$$

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$$5.- y = \arccos 3x^4$$

$$\frac{-u'}{\sqrt{1-u^2}} \quad y' = \frac{-12x^3}{\sqrt{1-9x^2}}$$

$$6.- y = \operatorname{arccsc} 4x^4$$

$$\frac{-u'}{|u|\sqrt{u^2-1}} \quad y' = \frac{-16x^3}{4x^4\sqrt{16x^{12}-1}}$$

$$7.- y = \operatorname{arcsec} 12x^4$$

$$\frac{u'}{u\sqrt{u^2-1}} \quad y' = \frac{48x^3}{12x^4\sqrt{144x^{12}-1}}$$

$$8.- \arctan 40x^3$$

$$\frac{u'}{1+u^2} \quad y' = \frac{120x^2}{1+1600x^6}$$

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$$9.- y = \arccos 4x^6$$

$$\frac{-u}{\sqrt{1-u^2}} y = \frac{-24x^5}{\sqrt{1-16x^{30}}}$$

$$10.- y = \arctan 6x^3$$

$$\frac{u}{1+u^2} y = \frac{18x^2}{1+36x^6}$$

