

"MATERIA". CALCULO

**NOMBRE DEL DOCENTE. ALBORES AGUILAR JORGE
ENRIQUE**



PRESENTA: EXAMEN

ALUMNO: LÓPEZ JIMÉNEZ CITLALI

CUATRIMESTRE

LICENCIATURA

SEMIESCOLARIZADO

FECHA DE ENTREGA: 9/jul/2020

Calculo

LÓPEZ JUÉNEZ GILALI

$$1: Y = \text{ARCO T } 2x^3 = \frac{6x^2}{1+(2x^3)^2} = \frac{-6x^2}{1+4x^5}$$

$$2: Y = \text{ARCCS } 10x^5 = 80x^7 = \frac{-80x^7}{80x^7 \sqrt{100x^{10}-1}}$$

$$R = \frac{-1}{\sqrt{100x^{10}-1}}$$

$$3: Y = \text{ARCTAN } 30x^8 = \frac{240x^7}{1+(30x^8)^2} = \frac{240x^7}{1+900x^{16}}$$

$$4: Y = \text{ARCTAN } 15x^3 = \frac{45x^2}{1+(15x^3)^2} = \frac{45x^2}{1+225x^6}$$

Calculo

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$$5: y = \text{ARCCOS } 3x^4 = 12x^3 = \frac{12x^3}{\sqrt{1+(3x^4)^2-1}} = \frac{12x^3}{\sqrt{1+9x^6}}$$

$$6: y = \text{ARCCSC } 4x^4 = 16x^3 = \frac{16x^3}{16x^3 \sqrt{(4x^4)^2-1}} = \frac{16x^3}{16x^3 \sqrt{16x^6-1}} = \frac{1}{\sqrt{16x^6-1}}$$

$$7: y = \text{ARCSEC } 12x^4 = 48x^3 = \frac{48x^3}{12x^4 \sqrt{(12x^4)^2-1}} = \frac{48x^3}{12x^4 \sqrt{144x^6-1}}$$

$$8: y = \text{ARCTAN } 40x^3 = \frac{120x^2}{1+(40x^3)^2} = \frac{120x^2}{1+1600x^5}$$

$$9: y = \text{ARCCOS } 4x^4 = \frac{24x^5}{\sqrt{1-(4x^6)^2}} = \frac{24x^5}{\sqrt{1-16x^8}}$$

$$10: y = \text{ARCTAN } 6x^3 = \frac{18x^2}{1+(6x^3)^2} = \frac{18x^2}{1+36x^5}$$

