3.5 La Regla de la cadena

Calcule y'

1. $y = \left(x^4 - 3x^2 + 5\right)^3$

2. $y = \sqrt{x} + \dfrac{1}{\sqrt[3]{x^4}}$

3. $y = \cos(\tan x)$

4. $y = 2x\sqrt{x^2 + 1}$

5. $y = e^{\sin 2q}$

6. $y = \sin^{-1}(e^x)$

7. $y = \ln(\csc 5x)$

8. $y = \ln(x^2 e^x)$

9. $y = x\tan^{-1}(4x)$

10. $y = \ln\left|\dfrac{x^2 - 4}{2x + 5}\right|$

11. $y = \sin(\tan\sqrt{1 + x^3})$

12. $y = \arctan(\arcsin\sqrt{x})$