

18. Find the derivative of the algebraic function

$$f(x) = x \left(3 - \frac{5}{x+9} \right)$$

a) $f'(x) = \frac{198 - 54x - 3x^2}{(x+9)^2}$

b) $f'(x) = \frac{198 + 54x + 3x^2}{(x+9)^2}$

c) $f'(x) = \frac{198 - 54x + 3x^2}{(x+9)^2}$

d) $f'(x) = \frac{198 + 54x + 3x^2}{(x+9)}$

e) $f'(x) = \frac{198 + 9x + 3x^2}{(x+9)^2}$

19. Find the derivative of the function $\frac{\sin x}{8x + \cos x}$

a) $\frac{\cos x}{8 - \sin x}$

b) $\frac{8x \cos x + \cos^2 x - 8 \sin x - \sin^2 x}{(8x + \cos x)^2}$

c) $\frac{8x \cos x - \cos^2 x - 8 \sin x + \sin^2 x}{(8x + \cos x)^2}$

d) $\frac{1 + 8x \cos x - 8 \sin x}{(8x + \cos x)^2}$

e) $\frac{\cos x}{(8 - \sin x)^2}$

20. Find the derivative of the function. $f(x) = 3x^2 \sin x + 2x^3 \cos x$

a) $f'(x) = (12x^2 - 2x^6) \sin x + (3x^4 + 16x^7) \cos x$

b) $f'(x) = (3x^4 - 16x^7) \sin x + (12x^2 - 2x^6) \cos x$

c) $f'(x) = -(12x^2 - 2x^6) \sin x + (3x^4 + 16x^7) \cos x$

d) $f'(x) = (12x^2 - 2x^6) \sin x + (3x^4 + 16x^7) \cos x$

e) $f'(x) = (12x^2 - 2x^6) \sin x - (3x^4 + 16x^7) \cos x$

21. Find the second derivative of the function $f(x) = 4x^{\frac{1}{5}}$

a) $f''(x) = \frac{-16}{25} x^{\frac{1}{5}}$

b) $f''(x) = \frac{1}{25} x^{\frac{1}{5}}$

c) $f''(x) = 4x^{\frac{1}{5}}$

d) $f''(x) = \frac{-16}{25} x^{\frac{1}{5}}$

e) $f''(x) = \frac{16}{25} x^{\frac{1}{5}}$

22. Find the derivative of the function $f(x) = x^2(2+5x)^2$

a) $f'(x) = x^2(2+5x)^2(12+50x)$

b) $f'(x) = 5x^2(2+5x)^2(12+50x)$

c) $f'(x) = x^2(2+5x)^2(12+50x)$

d) $f'(x) = x^2(2+5x)^2(12+50x)$

e) $f'(x) = x^2(2+5x)^2(12+5x)$

23. Find the derivative of the function. $g(x) = \left(\frac{x+1}{x^2+4} \right)^5$

a) $g'(x) = \frac{6(4-2x+x^2)}{(1+x)(4+x^2)} \left(\frac{1+x}{4+x^2} \right)^4$

b) $g'(x) = \frac{6(4+2x-x^2)(1+x)^4}{(4+x^2)^5}$

c) $g'(x) = \frac{6(4-2x-x^2)(1+x)^4}{(4+x^2)^5}$

d) $g'(x) = \frac{6(4-2x-x^2)(1+x)^4}{(4+x^2)^5}$

e) $g'(x) = \frac{6(4-2x-x^2)(1+x)^4}{(4+x^2)^5}$

24. Find the derivative of the function $y = \cos(5x^6 - 8)$

a) $y' = -30 \sin(5x^6 - 8)$

b) $y' = -30x^5 \sin(5x^6 - 8)$

c) $y' = 30 \sin(5x^6 - 8)$

d) $y' = 30x^5 \cos(5x^6 - 8)$

e) $y' = -5 \sin(5x^6 - 8)$

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web in theory solar energy was used by humans as early as the 7th century b c when history tells us that humans used sunlight to light fires with magnifying glass materials later in the 3rd century b c the greeks and romans were known to harness solar power with mirrors to light torches for religious ceremonies

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