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*what is a differential on a car and how does it work* Nov 13 2021 the differential is a set of gears that transmits engine power to the wheels allowing them to rotate at different speeds on turns if your vehicle has a four wheel drive system then it more than likely has a front and rear differential a differential works with the transmission to deliver power from the engine to the axle that turns the wheels

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for approximating certain values of the function the derivative of a function at the point  $x_0$  written as  $f'(x_0)$  is defined as the limit as  $\Delta x$  approaches 0 of the quotient  $\frac{\Delta y}{\Delta x}$  in which  $\Delta y$  is  $f(x_0 + \Delta x) - f(x_0)$

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1 of relating to or showing a difference 2 constituting or making a difference distinctive 3 dependent on or making use of a specific difference or distinction 4 mathematics of or relating to differentiation 5 involving differences in speed or direction of motion n 1 mathematics a an infinitesimal increment in a variable b

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different speed this is vital for handling and taking corners on high traction surfaces such as normal tarmac roads for a vehicle that is rear wheel drive this wouldn't be a problem for the front axle these

12 4 differentiability and the total differential Jul 29 2020 20 dec 2020

the total differential is  $dv = 2\pi rh dr + \pi r^2 dh$  when  $h = 10$  and  $r = 2$  we have  $dv = 40\pi dr + 4\pi dh$  note that the coefficient of  $dr$  is  $40\pi$  approx 125.7 the coefficient of  $dh$  is a tenth of that approximately 12.57 a small change in radius will be multiplied by 125.7 whereas a small change in

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