24(2) Find the two points $x$ where the tangent to $g(x) = x^3 - 3x$ is horizontal. checksum=1, each

28(2) At time $t$ seconds after takeoff, the height of a rocket is $h(t) = 3t^2$ ft. How fast is the rocket climbing 10 seconds after takeoff? Remember the units, i.e., feet, miles/hour, ... . 2 symbols, checksum=6, plus units

30(2) What is the rate of change of the volume of a ball ($V = \frac{4}{3} \pi r^3$) with respect to the radius when the radius is $r = 2$? 3 symbols, checksum=7

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20(1) $y = 1 - \frac{1}{x}$, $\frac{dy}{dx} = \frac{1}{x^2}$. Find $\frac{dy}{dx} |_{x=\sqrt{3}}$. 3 symbols, checksum=4

22(1) $w = z + \sqrt{z}$, $\frac{dw}{dz} = 1 + \frac{1}{2\sqrt{z}}$. Find $\frac{dw}{dz} |_{z=4}$. 3 symbols, checksum=9