

Calculus Test 1 Review Based on Assigned HW Fall Semester 2020–21

1. A spherical balloon with radius r inches has volume $V(r) = \frac{4}{3}\pi r^3$. Find an expression that represents the amount of air required to inflate the balloon from a radius of r inches to a radius of $r + 3$ inches.

Answer:

$$\begin{aligned} V(r+3) - V(r) &= \\ \frac{4}{3}\pi(r+3)^3 - \frac{4}{3}\pi r^3 &= \frac{4}{3}\pi(r^3 + 3r^2(3) + 3r(3^2) + 3^3) - \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(3r^2 + 27r + 27) \end{aligned}$$

2. Evaluate the difference quotient $\frac{f(a+h) - f(a)}{h}$ for the function $f(x) = -x^2$. Simplify your answer.

$$\begin{aligned} \text{Answer: } \frac{f(a+h) - f(a)}{h} &= \frac{-(a+h)^2 - (-a^2)}{h} = \frac{-(a^2 + 2ah + h^2) + a^2}{h} \\ &= \frac{-2ah - h^2}{h} = -2a - h \end{aligned}$$

3. Find the domain of the function $f(x) = \frac{5 \cos(x)}{1 - \sin(x)}$.

Answer: The quotient becomes undefined whenever the denominator is zero. There are no other reasons why this function would fail to be defined. That means we must avoid values of x for which $1 - \sin(x) = 0$. In one full rotation the only value that would make the denominator zero is $\frac{\pi}{2}$. The zero in the denominator then repeats with every full rotation clockwise or counterclockwise of the angle x . The domain is the real numbers excluding all these values that make the denominator zero:

$$\left\{x \in \mathbb{R} \mid x \neq \frac{\pi}{2} + 2\pi n, n \text{ an integer} \right\}$$

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