Skill Builder: Topic 5.3 – Determining an Interval on Which a Function is Increasing or Decreasing
Topic 5.4 – Using the First Derivative Test to Determine Relative (Local) Extrema

Find the intervals where the function is increasing or decreasing. Use a sign chart to organize your analysis. Justify your answers using proper AP notation. (f is _____ on _____ because _____ on that/those interval(s).)

1.) $f(x) = x^3 - 3x + 2$

$f'(x) = 3x^2 - 3$

$f' = 0$, f' DNE

$3(x^2 - 1) = 0$

$x^2 - 1 = 0$

$x^2 = 1$

$x = \pm 1$

sign chart: f' + − +   at $x=-2$, $x=0$, $x=2$

f is increasing on $(-\infty, -1) \cup (1, \infty)$ b/c $f' > 0$ on those intervals.

f is decreasing on $(-1, 1)$ b/c $f' < 0$ on that interval.

2.) $f(x) = x^4 - 8x^2 + 1$

$f'(x) = 4x^3 - 16x$

$f' = 0$, f' DNE

$0 = 4x(x^2 - 4)$

$x = 0$ $x^2 - 4 = 0$

$x = \pm 2$

sign chart: f' − + − + at $x=-3$, $x=-1$, 0 , $x=1$, 2 , $x=3$

f is increasing on $(-2, 0) \cup (2, \infty)$ b/c $f' > 0$ on those intervals.

f is decreasing on $(-\infty, -2) \cup (0, 2)$ b/c $f' < 0$ on those intervals.

3.) $f(x) = (x+1)^{2/3}$

$f'(x) = \frac{2}{3}(x+1)^{-1/3} = \frac{2}{3(x+1)^{1/3}}$

$f' = 0$, f' DNE

$3(x+1)^{1/3} = 0$

$x + 1 = 0$

$x = -1$

sign chart: f' − + at $x=-2$, -1 , $x=0$

f is increasing on $(-1, \infty)$ b/c $f' > 0$ on that interval.

f is decreasing on $(-\infty, -1)$ b/c $f' < 0$ on that interval.

4.) $f(x) = \sin x + \cos x$ on $(0, 2\pi)$

$f'(x) = \cos x - \sin x$

$f' = 0$, f' DNE

$0 = \cos x - \sin x$

$\sin x = \cos x$

$x = \frac{\pi}{4}, \frac{5\pi}{4}$

sign chart: + − + at 0 , $\frac{\pi}{4}$, $\frac{5\pi}{4}$, 2π

f is increasing on $(0, \frac{\pi}{4}) \cup (\frac{5\pi}{4}, 2\pi)$ b/c $f' > 0$ on those intervals.

f is decreasing on $(\frac{\pi}{4}, \frac{5\pi}{4})$ b/c $f' < 0$ on that interval.

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