Day 6 Answers

Graphs #1

a. $f(-6)=3$ & $f(5)=10-2\pi$
b. $[-6,-2)$ & $(2,5)$
c. $7-2\pi$
d. $f''(-5)=-\frac{1}{2}$ & $f''(3)=dne$

Graphs #2

a. neither
b. Yes… because
c. $AbsMin=-8$ $AbsMax=8$
d. $[-4,2]$ & $[10,12]$

Graphs #3

a. $g(3)=9$
b. $(-5,-3)$ & $(0,2)$
c. $\frac{1}{3}$
d. 6

Graphs #4

a. $g(2)=-\frac{1}{4}$ & $g(-2)=\frac{\pi}{2}-\frac{3}{2}$
b. $g'(-3)=2$ & $g''(-3)=1$
c. g'(x) changes from pos to negative at x=-1 therefore Max
g'(x) changes from neg to pos at x=1 therefore Min
d. x=-2, 0, & 1 because g''(x) changes signs

Graphs #5

a. $g(-3)=-6-\frac{9\pi}{4}$ & $g'(x)=2+f(x)$ & $g'(-3)=2$
b. $x=\frac{5}{2}$
c. $x=0$
d. $-\frac{2}{7}$

Multiple Choice

51. C
52. B
53. C
54. A
55. B
56. B
57. C
58. C
59. D
60. D