3.3.27.c This function is increasing from 2 to 3 , decreasing from -1 to 1 , and constant from -3 to -1 and from 1 to 2 .
3.3.33

$$
f(-x)=4(-x)^{3}=4\left(-x^{3}\right)=-4 x^{3}=-f(x),
$$

so $f$ is odd.
3.3.47 The absolute maximum is 4 , and the absolute minimum is 1 .
3.3.63.b

$$
\begin{gathered}
g(-1)=(-1)^{3}-2(-1)+1=2 ; \\
g(1)=(1)^{3}-2(1)+1=0 ; \\
\frac{g(1)-g(-1)}{(1)-(-1)}=\frac{0-2}{1+1}=-1
\end{gathered}
$$

