Section 10.4 Solutions

#19]
$$f(x) = (4 + 0.2x)^5$$
 Use General Power Rule

 $f'(x) = 5(4 + 0.2x)^6/2$ Where $u = 4 + .2x$
 $= (4 + .2x)^4$ Where $u = 4 + .2x$
 $= (4 + .2x)^4$ Where $u = 4 + .2x$
 $= (4 + .2x)^4$ Where $u = 4 + .2x$
 $= (4 + .2x)^4$ Use $f'(x) = .2$

#42] $g(x) = 4x e^{3x}$
 $g'(x) = 4x e^{3x}$
 $g'(x) = 5x + 6x$
 $g'(x) = 6x + 6x$
 g'