

Math 1121

Homework #11

#25, #28

$$\#25 \quad h(z) = \frac{z^{2.2}}{z^{3.2} + 5}$$

$$h'(z) = \frac{(z^{3.2} + 5) \cdot 2.2z^{1.2} - z^{2.2} \cdot 3.2z^{2.2}}{(z^{3.2} + 5)^2}$$

$$\#28 \quad g(x) = \frac{(2x^2 + 3)(5x + 2)}{6x - 7}$$

$$g'(x) = \frac{(6x - 7) \cdot ((2x^2 + 3) \cdot 5 + (5x + 2) \cdot 4x) - (2x^2 + 3)(5x + 2) \cdot 6}{(6x - 7)^2}$$