Derivative Pratice
(can't have enough practice)

If you can find the derivatives of the following functions you will be doing great!!!

(1) $f(x) = 2x^3 - 3x + 5$

(2) $g(x) = 3x^5 - 4x^7 + 6$

(3) $h(x) = e^{x^2+5x}$

(4) $P(q) = \ln(x^3 + 5)$

(5) $R(q) = (\ln(q + 2))^2$

(6) $C(q) = q^3 + 3q - e^{2q^2-5q}$

(7) $D(p) = p^7 - 7p^2 + 9p - 6 + e^{p^9-p^7+p^6}$

(8) $S(p) = p^3 + 3p + \left(e^{2p^2}\right)^3 + 700000$

(9) $f(x) = \frac{x^3-3x^2}{2x^7-7x}$

(10) $g(x) = 3x^3 e^{2x}$

(11) $h(x) = \frac{x^7-7x}{x^4 e^{x^5}}$

(12) $P(q) = \frac{15q^3-8q+8000000000}{e^{q^3+8q}}$

(13) $R(q) = 2000q^{800} + 5000q^{798080} + 1.7$

(14) $C(q) = \frac{q+2}{800q-1}$

(15) $D(p) = p^3 - 7p - 789456123216547895867 4123$

(16) $S(p) = \frac{pe^{p^7-7}}{p^6-8p}$

(17) $f(x) = \frac{2x^3-3x+5}{3x^5-4x^7+6}$

(18) $g(x) = (\ln(x^3 + 5)) \cdot \left(\frac{q+2}{800q-1}\right)$

(19) $h(x) = 89x$

(20) $P(q) = \frac{3q^5-4q^7+6}{2q^3-3q+8}$

(21) $R(q) = (2q^3 - 3q + 5) \cdot (3q^5 - 4q^7 + 6)$

(22) $f(x) = \frac{1}{\sqrt{x}}$

(23) $g(x) = \frac{1}{x^3}$

(24) $h(x) = \frac{3}{x^3} + x^4 + 7x^8$