Linear Law Practice 1–

Reduce Non-linear Function to Linear Function

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Practice 1 :

1. Reduce each of the following equations to the linear form. Hence, state the gradient and the Y-intercept of the linear equations in terms of a and b.

   a. $y = ax^3 + bx^2$

   b. $y = ax + \frac{b}{x}$

   c. $y = ax - bx^2$

   d. $xy = \frac{p}{x} + qx$

   e. $y = a\sqrt{x} + \frac{b}{\sqrt{x}}$

   f. $\frac{a}{y} = \frac{b}{x} + 1$

   g. $kx^2 + ty^2 = x$

   h. $y = \frac{x}{p + qx}$

   i. $hy = x + \frac{k}{x}$

   j. $y = ab^x$

   k. $y = ax^b$

   l. $y = ab^{x+1}$