1 (vi) $3x^2 - x - 4$

$= 3x^2 - 4x + 3x - 4$

$= x(3x-4) + 1(3x-4)$

$= (3x-4)(x+1)$

For finding zeros

$3x - 4 = 0, \quad x + 1 = 0$

$\Rightarrow x = \frac{4}{3}, \quad x = -1$

Sum of zeros $= \frac{4}{3} + (-1)$

$= \frac{4-3}{3}$

$= \frac{1}{3}$

$= -\frac{(-1)}{3}$

$= -\frac{b}{a} \quad [\because b = -1, a = 3]$

Product of zeros $= \frac{4}{3} \times (-1)$

$= -\frac{4}{3}$

$= \frac{c}{a} \quad [\because c = -4, a = 3]$