A167 Expanding and factorising 2

① $x^3+6x^2-24x-64$

② $x^3+6x^2+11x+6$

$a=1$, $b=6$, $c=11$, $d=6$

③ a) $6x^3+5x^2-17x-6$

b) $n^{7/2}$

④ $6x^3-23x^2-33x-10$

⑤ a) x^6

b) $(2y+1)(y-3)$

⑥ a) $(a+b)(a-b)$

b) $12(x^2+1)$

⑦ a) $(e+10)(e-10)$

b) $(2x+3)(x-5)$

c) $(g-7)^6$

⑧ a) $3(2+3x)$

b) $(y+4)(y-4)$

c) $(2p-5)(p+2)$

⑨ a) $x(x+7)$

b) $(y-8)(y-2)$

c) i) $(2t+1)(t+2)$

ii) t positive integer

$\therefore (2t+1)(t+2)$ is a product of two positive integer ≥ 2

$\therefore$ not prime