

7.5 General Strategy for Factoring Polynomials

279. $5x^3(2x+7)$

281. $(y-3)(y+13)$

283. $(2n-1)(n+7)$

285. $a^3(a^2+9)$

287. $(11r-s)(11r+s)$

289. $8(m-2)(m+2)$

291. $(5w-6)^2$

293. $(m+7n)^2$

295. $7(b+3)(b-2)$

297. $3(x-3)(x^2+3x+9)$

299. $(k-2)(k+2)(k^2+4)$

301. $3(5p+4)(q-1)$

303. $4(x+3)(x+7)$

305. $u^2(u+1)(u^2-u+1)$

307. prime

309. $10(m-5)(m+5)(m^2+25)$

311. (a) $-16(t^2-5)$ (b) $-8(2t+5)(t-2)$

313. Answers will vary.