the speeches of these men, quadrupled their power in Parliament. 1893 Stubb! Mercantile Circular 8 Nov. 981/21 The import of raw cotton. has more than quadrupled risk in two years.

4. To amount to four times as many as.
1832 Levis Use & 4b. Pol. Term xi. oa The number of females. probably more than quadrupled that of the male

3. intr. (for refl.) To grow to four times the

3. intr. (for refl.) To grow to four times the ormer number, amount, or size.

1776 Adam Smith W.M. II. ii. (1869) I. 296 The trade of Scotland has more than quadrupled since the first erection of the two publick banks at Scotland. 1833 HT. MARTINAL Cimanwon & Pearls v. 97 The exports. have quadrupled since the relaxation of the monopoly. 1882 PESONY Eng. Journalism XII. 145 Mr. Levy reduced the price of the paper. The circulation doubled, trebled, quadrupled. Hence 'quadrupled ppl. a. = QUADRUPLE a. 7697 TOPSELL Four-J. Beasts (1658) 99 The Harts of Briletum and Ibarne, have their reins quadrupled or four-fold. 1889 MANDPIELS 2014 455 A quadrupled salt with a single molecule of adjunct.

quadruplegic, var. QUADRIPLEGIC a. and sb.

quadrupler (kwo'dru:plor). [f. QUADRUPLE v. + -ER1.] A device that makes something four times

**RFI-] A device that makes something four times as great.

1941 MILLMAN & SELLY Electronics xii. 416 The circuit... can be extended from a doubler to a quadrupler by addrupler steady potential generator of 600 kilovolts. 1947 L. B. Young in C. G. Montsport Section of the property services and the services of the serv

oscinator requery is multiplied to 3 Messes by means of a push-push quadruplet.

quadruplet ("kwddruplet). [f. QUADRUPLE +-ET"; after triplet.]

1. pl. Four children born at a birth.

1787 Garthshore in Phil. Trans. LXXVII. 355 These are the only cases of quadruplets. he had ever heard of as born in Scotland. 1836-9 Todo Cycl. Anat. II. 736/1 An instance of quadruplets consisting of three boys and a girl. 1898

Daily News 15 Apr. 3/2 Huller ventured on the assertion. that quadruplets were born once in 20,000 cases.

2. a. Any combination of four things or parts united or working together, esp. four combined springs (Knight Dict. Mech. Suppl.).

1852 De Moroan in Graves Life Hamilton (1889) III. 38

We have then an harmonic quadruplet and sextuplet, and we might have octuplets, &c.

b. Muss. A group of four notes to be played in the time of three of the same value.

1873 H. C. Banisten Music 12 Other irregularities., such as four notes for three, termed a Quadruplet. 398 Oxf. Compan. Mus. p. xiviii (heading) Irregular thythmic groupings (duplets, tettplets, quadruplets, etc.). 1946 P. HINDEMITH Elem. Transing for Musicians ix. 117 The names of these newly established values are: duplets, triplets, quadruplets, and so forth up to decuplets. ... Some of these terms are so awkward (linguistically) that they are hardly ever used.

3. A bicycle for four riders. Cf. QUAD 5b. Also

ever used.

3. A bicycle for four riders. Cf. QUAD sb.³ Also

attrib.

1895 Daily News 27 July 5/3 Professional riders on tandems, triplets, and quadruplets. 1897 Whitaker's Alm. 141/2 A quadruplet team covered a flying quarter in 25.2

quadruplex ('kwodrupleka), a. and sb. [a. L. quadruplex fourfold, f. QUADRU- + plic-, to fold.]
A. adj. 1. Electric Telegraphy. Applied to a system by which four messages can be sent over one wire at the same time.

system by which four messages can be sent over one wire at the same time.

1878 CNIGHT Dit. Mach. 18421 Quadruplex Talegraph.

1879 C. Prancorr Sp. Taleghone p. iii, In 1874 Edison invented a quadruplex system p. iii, In 1874 Edison invented a quadruplex system p. iii, In 1874 Edison invented a quadruplex system p. iii, In 1874 Edison invented a quadruplex system p. one of the mass striking achievements of modern telegraphy, one of the most striking achievements of modern telegraphy.

2. Engineering. Applied to an engine in which the expansion of the steam is used four times in cylinders of increasing diameter.

1896 Weitm. Gaz. 8 May 10/2 A steamer, fitted with fiverants quadruplex engines.

3. Genetics. Also quadri-. Of a tetraploid individual: having the dominant allele at some particular locus represented four times.

1802 [see DUPLEX a. 1-g. 1932 SANSOME & FRILP Res. Adv. Plant Genetics v. 182 There are five possible types of zygote in the control of the control

B. sb. A telegraphic instrument by means of which four simultaneous messages can be sent over the same wire

over the same wire.

Hence 'quadruplex v., to make (a telegraph circuit, etc.) quadruplex. Cf. QUAD v.

1887 Brit. Merc. Gas. 15 June 43/2 The multiplication of wires soon attracted attention to methods of duplexing and quadruplexing the circuits. 2888 Times (weekly ed.) 29 Mar. 5/2 If the line is already duplexed. the addition of the phonophore will quadruplex it.

quadruplicate (kwo'druplikat), a. and sb. [ad. L. quadruplicāt-us, pa. pple. of quadruplicāte to quadruple, f. quadruples: see prec.]

A. adj. 1. Fourfold; four times repeated. quadruplicate proportion, ratio, the proportion

or ratio of fourth powers in relation to that of the radical quantities.

radical quantities.

1637 Houses Abund Geom. Wks. 1845 VII. 378 An infinite row of Arithmetically proportionals, in proportion quadruplicate. 1794 C. Aoass Not. 85 Exp. Philos. III. xxxx. 369 The efforts tending to destroy the adhesion of beams from their gravity only, increase in the quadruplicate ratio of their lengths. 1816 PLAYEAR Nat. Phil. II. 169 The same [probability] is increased in a quadruplicate ratio, from considering the phenomena of all these four superior planets.

same processing the phenomena of all these four superior planets.

2. Forming four exactly corresponding copies.

2807 PIRE Sources Missis. III. App. (1810) 72, I have directed the formula for you to sign of four corresponding quadruplicates receipts.

B. 50. 1. in quadruplicate: In four exactly

B. 50. 1. 539 quadruplicate: In four exactly corresponding copies or transcripts.

1790 W. HASTINGS Let. to Bossell 2 Dec. in B.'s Yohnson an. 1781 Of these [letters], one which was written in quadruplicate. has already been made publick. 1900 Rules (25 Oct.) under Money-Lenders Act vi. The order shall be signed in quadruplicate by the permanent Secretary. fig. 1886 KIPLING Departm. Ditties, etc. (1890) 47 Four times Cupid's debtor!—Bankrupt in quadruplicate.

2. pl. Four things exactly allike; esp. four exactly corresponding copies of a document.

exactly corresponding copies of a document.

1883 Sin C. S. C. Bowns in Low Rep. 11 Q. Bench Div.
342 The. conveniences which merchanes. believed to be afforded by the system of triplicates or quadruplicates.

quadruplicate (kwo'druplikett), v. [f. ppl. stem of L. quadruplicare: see prec.]

1. trans. To multiply by four; to make four

1. trans. To multiply by four; to make four times as many or as great; to quadruple.

166 in Blours Gloroge, (ed. a), 1674 Jeans Arith. (1696) 56 Or else duplicate. augustruplicate &c. the Fraction according to the given Integer 1694 Sakmon Bate's Dispers. (1713) 327/2 Sometimes the Proportion is to quadruplicated. 1868 Under the Spell III. 220 Prices 'were quadruplicated',' the demand for places being great. 1888 G. W. Carle in Amer. Missionary Apr. 90 If you knew the national value of this work., you would quadruplicate it before the year is out.

2. To make or provide in quadruplicate; to provide four (things) exactly alike.

1879 G. Measuritz Réguit III, iii. 68, We — in danger of duplicating and triplicating and quadruplicating presents].

Presents].
Hence qua'druplicating vbl. sb. (Ash Suppl.

quadruplication (kwa,dru:ph'keifan). [ad. L.

quadruplication (kwa,dru:ph'ketfən). [ad. L. quadruplicātiōn-em, n. of action from quadruplicātiōn-em, n. of action from quadruplicāte to make fourfold: see prec.]

1. The action or process of making fourfold, of multiplying by four; also, the result of this; a thing folded four times.

1578 Bantster Hitt. Man v. 78 It [the vein] is admitted into the quadruplication of Dura mater. 1611 COTCR. Quadruplication, a quadruplication. 166 in BULLOKAR Erg. Expor. [Hence in Cockeram, BLOUNT, etc.] 1674 JEANE Arith. (166) 24 Quadruplication. is to double the Duplication. 1839 ALISON Europe (1849-50) VII. xli. §15. 9 Twenty-eight years; the well-known period of the quadruplication of the Sum at compound interest of five per cent.

2. Civil and Canon Law. A pleading on the

2. Civit and Canon Law. A pleading on the part of the defendant, corresponding to the rebutter at common law. Cf. QUADRUPLY tb. 1651 W. G. tr. Cosset's Inst. 2a) After a Triplication [follows] a Quadruplication. 1726 AYLIFFE Paragree 251 Quad[publications, which the Defendant propounds to the Plaintiffs Triplications.

qua'druplicature. [f. QUADRUPLICATE v. + -URE.] = prec., sense 1.
1891 in Cent. Dict.

quadruplicity (kwodru:plisiti) [ad. L. quadruplicitās, n. of quality f. quadruplex: see QUADRUPLEX and -ITV.] Fourfold nature; the condition of being fourfold, or of forming a set

condition of being fourfold, or of forming a set of four.

**t590 Greene Fr. Bacon ix. 31 The quadruplicity Of elemental essence. 1593 Norden Spec. Brit., Mrex 1. 44 King Canutus the Dane. .. in regard of his quadruplicitie of kingdomes, esteemed himselfe more then a man mortall. 1564 Power Exp. Philos. 37 Dr. Brown. hath ranked this conceit of the eyes of a snail (and especially their quadruplicity) amongst the vulgar error. 1825 S. T. COLENIDER AIDR REPUBLIES OF OFTICE 1888 I. 395 The universal quadruplicity or four elemental forms of power. 1890 J. H. STURLING Gifford Leet, iii. 41 The origin of the term [final causes] lies in the Aristotelian quadruplicity of causes as such.

such.

† quadruplify, v. Obs. rare-1. {f. L. quadruplus
QUADRUPLE + -(1)FY.] = QUADRUPLE v.
1578 BANISTER Hist. Man VIII. 99 In the hynder part of the
head these Membranes are Quadruplifies.

quadrupling ("kwodruphin), vbl. sb. [f. QUADRUPLE v. + -ING!] The action of the vb. 1694 Phil. Trens. XVIII. 70 The doubling, trebling, quadrupling. &c. of Rations is performed by squaring, cubing, biquadrating, &c. of the terms. 1885 Fall Mail G. 37 Mar. 17. Supplemented, asy, by the quadrupling of our field artillery.

amiler, tquadruply, sb. Sc. Law. Obs. rare. [ad. obs. F. quadruplique (16th c. in Littré Suppl.); cf. DUPLY.] = QUADBUPLICATION 2. 1595 Sc. Acts Will. III. c. 6 (1822) IX. 365/2 The Clerks writing of the Defences, Duplyes, Triplyes, Quadruplyes, and so furth for the defender and pursuer. 2762 (1816)

Quadruplies for . R. Graham . J. Bakie [etc.] to the triplies for P. Honeymoon [etc.], Feb. 10. 1820 [see DUPLY b]. quadruply ('kwodru:pli), adv. [f. QUADRUPLE a. + -LY'.] Four times; in a fourfold degree or

manner.

1736 Swift Gulliver I. vi, The innocent person is quadruply recompensed. for the danger he underwent.

1793 T. TAYLON Oral. Julian p. lxvi, Thy orb quadruply intersects these worlds. 1857 Geo. Extor Ess. (1884) 4 The poet's [Young's] father was quadruply circleal, being at once rector, prebendary, court chaplain, and dean.

poet's [Young's] father was quadruply clerical, being at one rector, prebendary, court chaplain, and dean.

quadrupole ('kwodrupoul), sb. and a. Physics. Also quadri-. lad. Du. quadrupool: see QUADRU-, QUADRI-, and POLE &b'.] A. sb. a. A multipole of order l = 2 (cf. MULTIPOLE sb.). Usu. attrib. 1922 Proc. Sect. Sci. K. Akad. Wetensh. Amsterdam XXIII. 939 Assuming the molecules to act on each other as electric quadrupoles with constant quadrupole moment. Burgers has calculated the quadrupole Philos Soc. XXIII. 939 A method of calculating the probability of switches the property of the process of the

b. An arrangement of four magnetic (or electric polea, of alternate polarity, pointing at the same volume of space (used to focus beams of sub-atomic particles).

1954 Rev. Sci. Instrument XXV. 289/2 The introduction of the quadrupoles Q₁ and Q₂ introduces both vertical and horizontal focusing effects for a given energy. 1961 D. Luckey in D. M. Ritson Techniques High Energy Physici st. 420 A single quadrupole can be used to obtain vertical focusing in a broad-range uniform-field spectrometer. 1969 IEEE Trans. Nucl. Sci. XVI. 7.28/2 Work on the dipole magnetic circuits as well as on cryogenic temperature iron core quadrupoles and sextupoles has continued. 1976 McGrava-Hill Yearbs. Sci. Technol. 89/12 Even when dipoles or quadrupoles are to be operated at flux densities the windings has important advantages.

B. adj. Having or pertaining to two pairs of magnetic (or electric) poles.

B. adj. Having or pertaining to two pairs of magnetic (or electric) poles.

1958 Rev. Sci. Instruments XXVI. 220/1 A second possibility. is to use a succession of electric or magnetic quadrupole lenses. 1960 Ann. Rev. Nucl. Sci. X. 163 A snigle quadrupole magnet has a focusing action for motion in one plane (either horizontal or vertical) and a defocusing action in the other plane. However, two or more quadrupole magnets may be used to give a net focusing action in both planes. 1976 McGraze-Mill Yeards. Sci. & Technol. 38/11. Listable in the distances along the beauty path. 1970 Sci. Amer. May 64/3 The ZGS lacks the quadrupole and sextupole magnets that are employed for focusing in many other accelerators.

magnets that are employed for focusing in many other accelerators.

Hence quadru'polar a. 1950 Physical Rev. LXXIX. 698/1 A situation in which any quadrupolar splitting of the nuclear resonance in a magnetic field is small compared to the magnetic resonance frequency itself. 1959 G. TROUP Maters ii. 28 This statement can be generalized, because the dipole moment may be electric or magnetic; or the moment may be of higher order, quadrupolar, for example. 1972 Science 26 May 903/1 The author directly proceeds to describe the effects due to quadrupolar and hyperfine interactions between electrons and nuclei.

quadruviall, obs. form of QUADRIVIAL.

quadrypedyd: see after QUADRUPED.

quadundrum, obs. variant of CONUNDRUM.

'quædam. Obs. rare. [L., fem. sing. and pl. of

quidam some one, QUIDAM.] A woman, female (in disparaging sense). Also as pl. a 1670 Hacker Abp. Williams 1. (1692) 35 Vain attire, wherein wanton Quædams in those days came to .. excess. bid. 11. 128 He., settles in Bugden-House for three Summers with a Seraglia of Quædam.

quaem, obs. form of QUALM sh.

quaer, obs. form of QUIRE sb., WHERE adv.

quære ('kwiəri:), v. imper. and sb. Also 6-9 quere, (7 queer, quire). [L., imper. of quarère (med.L. querere) to ask, inquire. Now usually in anglicized form, QUERY.]

1. v. imper. Introducing a question or subject

1. v. imper. Introducing a question or subject of inquiry: Ask, inquire; hence, 'one may ask', 'it is a question' (tehether, etc.).

1836 tr. Littleton's Nat. Brev. 18 b (Stanf.) Quere the dyuersite. 1848 STAUNFORD Kinges Preng. (1807) 54b. But quere whether his highnes may be brought in possession in those cases by a clayme or not. 1602 CARRW Cormoull 135 Notwithstanding, quere, whether a causlesse ambition. The control of the Control o