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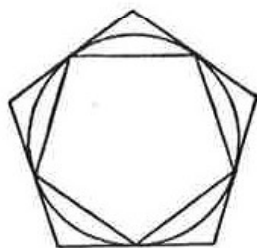
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ample, a numerical keyboard, typewriter, punched-card machine, or tape might be used for this purpose.

IN-SCRIBED', *adj.* A polygon (or polyhedron) is said to be inscribed in a closed configuration composed of lines, curves, or surfaces, when it is contained in the configuration and every vertex of the polygon (or polyhedron) is incident upon the configuration; a closed configuration is said to be inscribed in a polygon (or polyhedron) when every side (in the polygon) or every face (in the polyhedron) is tangent to it and the configuration is contained in the polygon (or polyhedron). If one configuration is inscribed in another, the latter is said to be **circumscribed** about the former (see **CIRCUMSCRIBED**). The figure shows a polygon inscribed in a circle, the circle inscribed in another polygon. See **BROKEN**—broken line.



inscribed angle. An angle formed by two chords which intersect on the curve, each with an end point at the vertex of the angle. An angle inscribed in a circle of unit radius has radian measure equal to half the length of the intercepted arc; in particular, an angle inscribed in a semicircle is a right angle.

inscribed circle of a triangle. The circle tangent to the sides of the triangle. Its center is the intersection of the bisectors of the angles of the triangle, and is the **incenter** of the triangle. Its radius is

$$\sqrt{\frac{(s-a)(s-b)(s-c)}{s}}$$

where a, b, c are the lengths of the sides of the triangle and $s = \frac{1}{2}(a + b + c)$. *Syn.* incircle.

inscribed cone, cylinder, polygon, prism, pyramid. See **CIRCUMSCRIBED**.

IN-STAL'MENT (or IN-STAL'MENT), *n.* **installment payments.** Payments on notes, accounts, or mortgages at regular periods. Each payment may include a fixed payment on principal and interest on the balance over the preceding period, or the interest on the entire amount

may have been added to the principal at the outset and the payments made equal. The latter practice makes the actual interest practically double the quoted rate. The former method is sometimes called the **long-end interest plan**. Sometimes fixed payments plus the interest on the amount of the payment from the beginning of the contract are made periodically (monthly). This is sometimes called the **short-end interest plan**. See **AMORTIZATION**.

installment plan of buying. Any plan under which a debt is paid in installments.

installment policies. Insurance policies whose benefits are payable in installments beginning at the death (or end of the death year) of the insured, instead of in a single payment.

installment premium. See **PREMIUM**.

IN'STAN-TA'NE-OUS, *adj.* **instantaneous acceleration, speed, and velocity.** See **ACCELERATION, SPEED, VELOCITY**.

IN'SUR'ANCE, *adj., n.* **extended insurance.** Insurance extended (because of default in payment or some other exigency) over a period of such length that the *net single premium* is equal to the *surrender value* of the policy.

insurance policy. A contract under which an insurance company agrees to pay the beneficiary a certain sum of money in case of death, fire, sickness, accident, or whatever contingency the policy provides against.

life insurance. A contract to pay a specified benefit under specified conditions when certain lives end (or periodically thereafter), or when the lives end if that is within a certain period. The former is **whole-life insurance**; the latter, **temporary (or term) insurance**. The money paid by the insured for his protection is the **premium** and the formal contract between him and the company is the **policy**. **Deferred life insurance** can refer to any type of life insurance which has the provision that benefits are not payable if the insured lives end before a specified future date. **Ordinary life insurance** is whole life insurance with premiums payable annually throughout life (a **limited-payment policy** is one for which the annual payment is to be paid only for a stated number of years—it is **insurance with return of premiums** if the company returns all premiums after payments are completed). Term insurance which permits the insured to reinsure (usually at the end of the period) without another medical examination is **option-term insurance**. Insurance payable upon the end of the life of the insured (the policy life) provided some other life (the counter life) continues is **contingent-life insurance**. This is a simple case of compound-survi-