

$$\begin{array}{ll}
 a \cdot m \circ b = am + b, & a(b + c) = ab + ac, \\
 (a + b) + c = a + (b + c), & (a + b)m = am + bm, \\
 (6.17.1) \quad a + b = b + a, & a1 = 1a = a, \\
 a + 0 = 0 + a = a, & aa^{-1} = a^{-1}a = 1, a \neq 0, \\
 a + (-a) = (-a) + a = 0, & a^{-1}(ab) = b.
 \end{array}$$

If Theorem L holds for A, B, M, N on three lines not in a pencil, then it is a universal theorem in π . In addition to (6.17.1) we also have (6.17.2) $(ab)^{-1} = b^{-1}a^{-1}$, $(ba)a^{-1} = b$ and any natural ring of π is an alternative field. The collineation group of π is transitive on the triangles of π .

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p. 503, line 2 of Theorem 1. For “ (x, y) ” read “ $u(x, y)$.”