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Projective planes of order  $n$  admitting  $PSL(2, q)$ ,  $q > 3$ , as collineation group are investigated for  $n \leq q^2$ . As a consequence, affine planes of order  $n$  admitting  $PSL(2, q)$ ,  $q > 3$ , as collineation group are classified for  $n < q^2$  and for  $(q, n)$  different from  $(5, 16)$ . A generalization of the Foulser-Johnson theorem is also obtained. (Received January 20, 2007)