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次の2次方程式を解きなさい。

(1) $3x^2 = 108$

(2) $4x^2 - 39x + 27 = 0$

(3) $x^2 + 9 = -6x$

(4) $(2p + 5)^2 = 16$

(5) $x^2 + 5x + 2 = 0$

(6) $2x^2 - 14x - 49 = 0$

(7) $x(x - 4) = 12 - 5x$

(8) $3(x + 1)(x - 2) = 2(x^2 - 2)$