$2b^{2} - 12 - 5b = 12 - 12$  Subtract both sides by 12  $2b^{2} - 5b - 12 = 0$  (2b + 3) (b - 4) = 0 factor the left side of the equation 2b + 3 = 0; b - 4 = 0 equate the factors to zero 2b = -3; b = 4 simplify 2b / 2 = -3 / 2b = -3 / 2

checking:

b = -3/2 ;	b= 4
$2b^2 - 5b = 12$	$2b^2 - 5b = 12$
2(-3/2) <sup>2</sup> - 5 (-3/2) = 12	$2(4)^2 - 5(4) = 12$
2(9/4) + 15/2 = 12	2 (16) – 20 = 12
9/2 + 15/2 = 12	32 - 20 = 12
24/2 = 12	12 = 12
12 = 12	

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