

Name: \_\_\_\_\_

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Expand the brackets so that you can use the quadratic formula.

Remember:  $ax^2 + bx + c = 0$  where a, b and c are coefficients.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Find solutions two solutions for x with each of the following:

**Some of these will have no real solution as you cannot find the square root of a minus number.**

1.  $(2x+4)(3x-7) = 0$
2.  $(4x-7)(9x+3) = 0$
3.  $(8x-2)(3x+2) = 0$
4.  $(4x+4)(5x-3) = 0$
5.  $(7x+2)^2 = 0$
6.  $12x + (3x-4)^2 = 0$
7.  $(9x+7)(8x+3) = 0$
8.  $(12x-8)(7x+5) = 0$
9.  $8(7x+3)^2 + 67 = 0$