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| $$ax^{2}+bx+c=0$$ |
| $$a\left[x^{2}+\frac{b}{a}x\right]+c=0$$ |
| $$a\left[\left(x+\frac{b}{2a}\right)^{2}-\left(\frac{b}{2a}\right)^{2}\right]+c=0$$ |
| $$a\left[\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}}{4a^{2}}\right]+c=0$$ |
| $$a\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}}{4a}+c=0$$ |
| $$a\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}}{4a}+\frac{4ac}{4a}=0$$ |
| $$a\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}-4ac}{4a}=0$$ |
| $$\left(x+\frac{b}{2a}\right)^{2}=\frac{b^{2}-4ac}{4a^{2}}$$ |
| $$x+\frac{b}{2a}=\frac{\pm \sqrt{b^{2}-4ac}}{2a}$$ |
| $$x=\frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$$ |

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| $$ax^{2}+bx+c=0$$ |
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| $$x=\frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$$ |

Here’s the pieces in a random order…

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| $$ax^{2}+bx+c=0$$ | $$a\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}-4ac}{4a}=0$$ |  |
| $$a\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}}{4a}+\frac{4ac}{4a}=0$$ |  | $$a\left[x^{2}+\frac{b}{a}x\right]+c=0$$ |
|  | $$a\left[\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}}{4a^{2}}\right]+c=0$$ |  |
| $$a\left[\left(x+\frac{b}{2a}\right)^{2}-\left(\frac{b}{2a}\right)^{2}\right]+c=0$$ | $$\left(x+\frac{b}{2a}\right)^{2}=\frac{b^{2}-4ac}{4a^{2}}$$ | $$a\left(x+\frac{b}{2a}\right)^{2}-\frac{b^{2}}{4a}+c=0$$ |
| $$x+\frac{b}{2a}=\frac{\pm \sqrt{b^{2}-4ac}}{2a}$$ |  | $$x=\frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$$ |