Polynomial Factoring: Special Cases

|  |  |
| --- | --- |
| Description | Identity |
| Difference of two squares | $$a^{2}-b^{2}=$$ |
| Sum of two squares | $$a^{2}+b^{2}=$$ |
| Perfect square trinomial | $$\left(a+b\right)^{2}=$$ |
| Perfect square trinomial | $$\left(a-b\right)^{2}=$$ |
| Binomial cubed | $$\left(a+b\right)^{3}=$$ |
| Binomial cubed | $$\left(a-b\right)^{3}=$$ |
| Sum of two cubes | $$a^{3}+b^{3}=$$ |
| Difference of two cubes | $$a^{3}+b^{3}=$$ |

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