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| --- | --- |
| Let a and b be equal numbers |  *a = b* |
| Multiply both sides of the equation by *a* |  *a2 = ab* |
| Add *a2 to both sides of the equation* |  *2a2 = a2+ab* |
| Subtract *2ab* from both sides |  *2a2-2ab = a2-ab* |
| Factorise both sides in terms of *a2-ab* |  *2(a2-ab)= 1(a2-ab)* |
| Divide both sides by the common factor *a2-ab*All algebra is eliminated. We have proved that two is equal to one. |  2 = 1 |