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(305)

$$b^2 = ac$$

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$$(a+b)^2 c \stackrel{?}{=} a(b+c)^2$$

$$(a^2 + 2ab + b^2)c \stackrel{?}{=} a(b^2 + 2bc + c^2)$$

$$a^2c + 2abc + b^2c \stackrel{?}{=} ab^2 + 2abc + ac^2$$

$$b^2(c-a) \stackrel{?}{=} ac^2 - a^2c$$

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$$ac(c-a) = ac^2 - a^2c$$