

80  
(305)

$$2b^n \stackrel{?}{<} a^n + c^n$$

$$2(\sqrt{ac})^n \stackrel{?}{<} a^n + c^n$$

$$2(ac)^{n/2} \stackrel{?}{<} a^n + c^n$$

$$0 \stackrel{?}{<} a^n - 2(ac)^{n/2} + c^n$$

$$0 < (a^{n/2} - c^{n/2})^2$$