W A

We can illustrate the given in the figure at the right

Given: ∆BOW and ∆BAT

 B is the midpoint of OA and TW B

Prove: ∆BOW is $≅$ ∆BAT O T

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| STATEMENTS | REASONS |
| 1. B is the midpoint of OA and TW | 1. Given |
| 2. BW $≅$ BT  | 2. Definition of Midpoint |
| 3. BO $≅$ BA | 3. Definition of Midpoint |
| 4. ∠OBW and ∠ABT are vertical angles | 4. Definition of Vertical Angles |
| 5. ∠OBW $≅$ ∠ABT | 5. Vertical Angle Theorem |
| 6. ∆BOW is $≅$ ∆BAT | 6. SAS Postulate |

Therefore, the given statements are proven.