Chapter 19 Review

Dimensioning with Tolerances

**Name:** **Click here and type your name**

Click in the shaded area and type your answer for each question. Use the [Tab] key to move from one answer field to the next.

1. Define the term tolerance.

Click here and type your answer

2. What are the limits of the tolerance dimension 3.625±.005?

3. Give an example of an equal bilateral tolerance in inches and in metric units.

4. Give an example of an unequal bilateral tolerance in inches and in metric units.

5. Give an example of a unilateral tolerance in inches and in metric units.

6. What is the purpose of the Symmetrical tolerance method option?

7. What is the purpose of the Deviation tolerance method option?

8. What is the purpose of the Limits tolerance method option?

9. How do you set the number of zeros displayed after the decimal point for a tolerance dimension?

10. Explain the result of setting the Scaling for height: option to 1 in the Tolerances tab.

11. What setting should you use for the Scaling for height: option if you want the tolerance dimension height to be three-quarters of the specified dimension height?

12. Name the tolerance dimension justification option recommended by the ASME standards.

13. Which Zero suppression settings should you choose for linear and tolerance dimensions when using inch units?

14. Which Zero suppression settings should you choose for linear and tolerance dimensions when using metric units?

15. What is the purpose of geometric dimensioning and tolerancing?