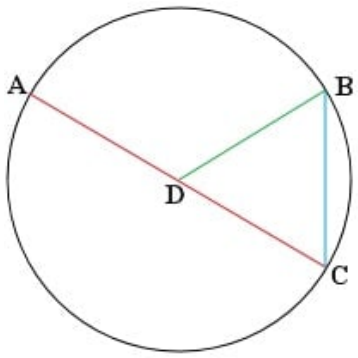
M1T1 Circles Study Guide Name: _____ / ___

1) Name the following:



a) *Circle*

b) Radius

c) Diameter

2) If Segment BD (in the image above) is 8 cm in length, calculate the following:

a) Exact Area of the circle

b) Exact Circumference of the circle

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3) If a circle has a diameter of 23m (meters), calculate the following:
(use the π button and round your answer to the nearest hundredth)

a) Area of the circle

b) Circumference of the circle

Write and *solve* a ***circle equation*** *to solve for the radius or the diameter:*

4) If the exact area of a circle is 361π cm², solve for the radius

5) If the approximate circumference of a circle is 23.55 ft, solve for the radius (use 3.14 for *π)*

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6) One small circle is completely inside a larger circle. Both circles share the same center point. Calculate the area of the shaded region.