CW: Benchmark 3 Review

Name:

Date: PD:



1. Given: Find:





1. The graph of the equation must pass through what point/s?



1. Solve for x:
2. Find the arc length ***s*** shown in the figure.







1. Find the period of y = -2cos6x
2. Sketch a graph of



1. Write a trigonometric function *f(x)* that corresponds to the given graph.





















1. Give a solution set in radians and degrees for



1. Evaluate: csc(arctan 2)
2. Given a point (3, -4) on a circle with center at the origin and radius ***r*** forming an angle θ with the x-axis, determine cotθ
3. Solve for x in simplest logarithmic form: 103x = 8
4. Solve for y in terms of x. logy = 3logx + log5



1. Given the following rational function:
2. State the domain
3. State the zeroes.
4. Write the equation/s of the vertical asymptote/s. If none exists, write “none”.
5. Write the equation of the horizontal asymptote. If none exists, write “none”