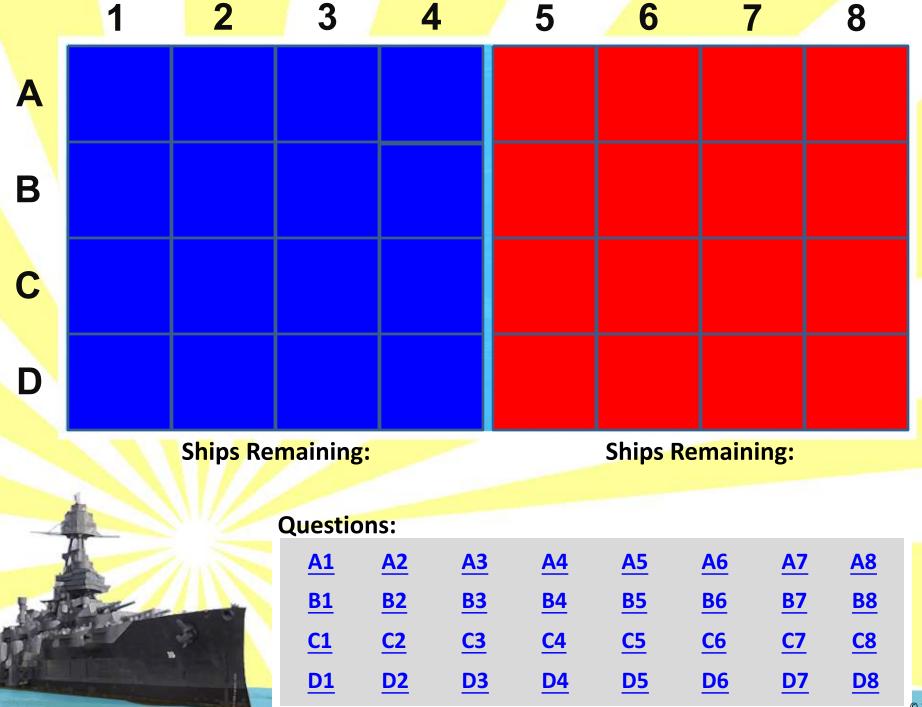


Rules

- 1. No calculators, books, or phones.
- 2. Teams alternate choosing targets. Every person takes a turn and can consult team members before answering the question. If correct, the target is revealed. The first team to uncover all 3 battleships wins.
- Every person should work every problem even if it's not their team's problem.
- If a person is not participating or has a phone out, the team loses a turn, and that person receives a big fat zero for a daily grade.



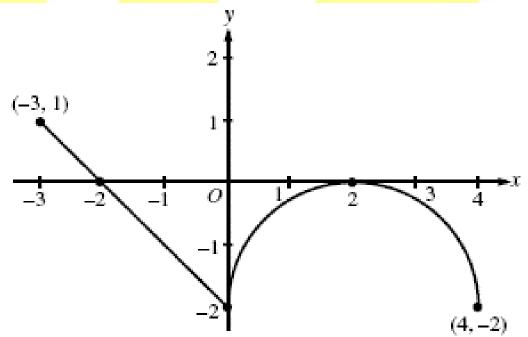
What are the first 3 terms of the Maclaurin series for sinx?

Find —,

Return to Board

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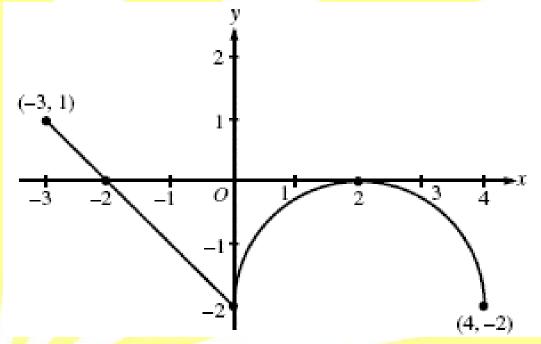
What is the average value of () = on [0,3]?



This is a graph of f'(x). Where is f(x) decreasing?

$x(t) = t^2 + 1$ $y(t) = t^3 + 2$

Find the speed at t=2.



This is the graph of f(x). Find

$x = t^2 \quad y = 2t^3 + 1$

Find $\frac{d^2 y}{dx^2}$

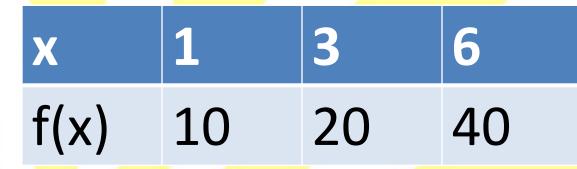
What are the first 3 terms of the Maclaurin Series for ?

What are the 3 conditions of Rolle's Theorem?

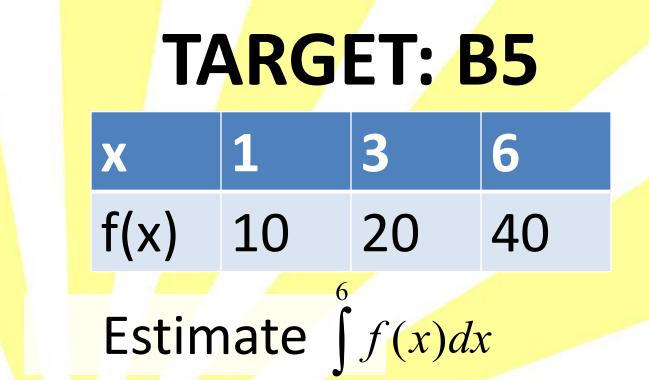


What is the formula for finding polar area?

What is the Mean Value Theorem? Don't forget to include the conditions.



Estimate f'(2).



using a trapezoidal approximation with 2 subintervals.

f(x) is a continuous, increasing function. Is a left Riemann sum an over or under approximation?

f"(x) < 0. Will a tangent line approximation for f(x) be an under or over approximation?

Solve the differential equation. --=(+) with initial

condition (0,2).

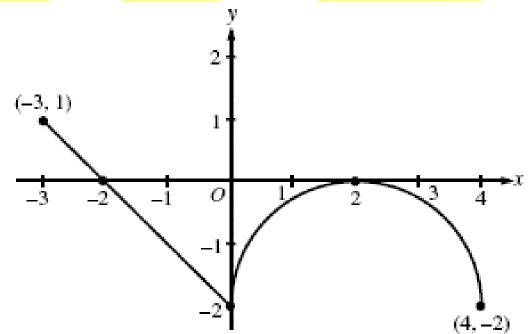
Set up an integral that gives the total distance traveled on [1,3]. = + and = + .

= θ Write an expression for x.

When is a particle is speeding up?

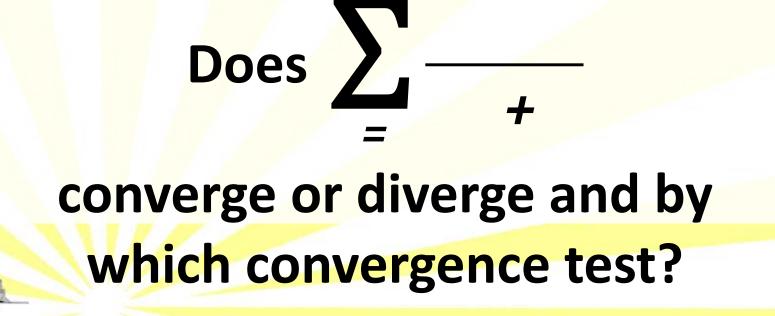
Find the antiderivative of

Find the antiderivative of



This is a graph of f'(x). Where is f(x) concave down?

 ∞

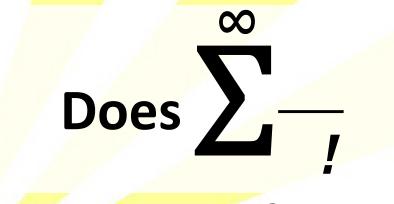


()

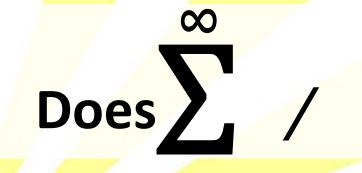
 ∞

Does **X**

converge or diverge and by which convergence test?



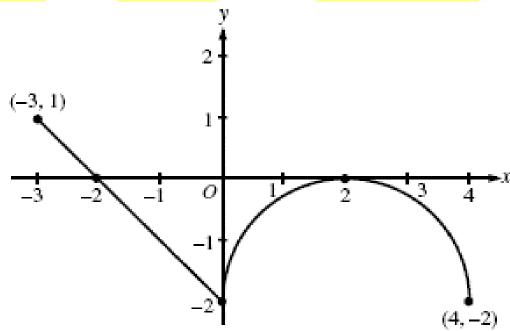
converge or diverge?



converge or diverge?

What is the general formula for a Taylor series centered at x=a?

TARGET: D5 Given **(**) ()=. Find f() **Return to Board**



This is the graph of f'(x). What are the x – coordinates of the critical numbers? Detern

What's the general term for the Maclaurin series for cosx?