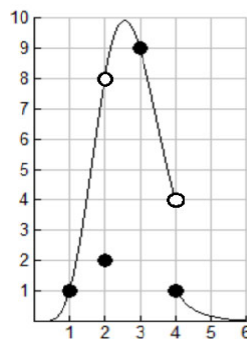


Ghostbusters	Road Trip		FTC	Aunty Derivative
Q \$100	Q \$100		Q \$100	Q \$100
Q \$200	Q \$200		Q \$200	Q \$200
Q \$300	Q \$300		Q \$300	Q \$300
Q \$400	Q \$400		Q \$400	Q \$400
Q \$500	Q \$500		Q \$500	Q \$500

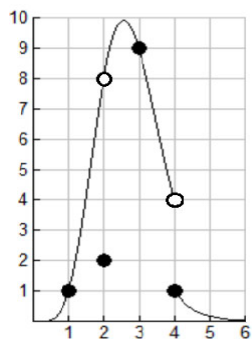
Final Jeopardy

\$100 Question from Ghostbusters



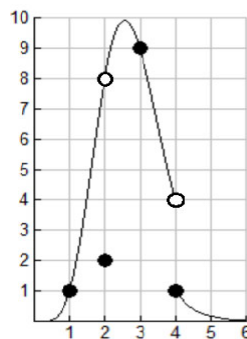
At this value of x there is a removable discontinuity

\$200 Question from Ghostbusters



$$\lim_{x \rightarrow 2} f(x)$$

\$300 Question from Ghostbusters



$$\lim_{x \rightarrow 4^+} f(x)$$

\$400 Question from Ghostbusters

$$\lim_{x \rightarrow 5^-} \frac{x + 5}{x^2 - 25}$$

\$500 Question from Ghostbusters

$$\lim_{x \rightarrow 0} \frac{e^x - \sin x - 1}{x^3 + 7x^2}$$

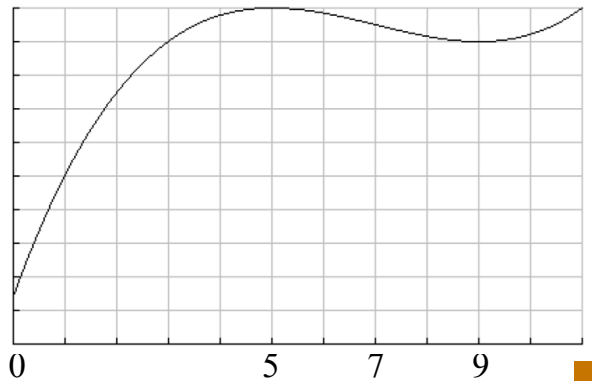
\$100 Question from Road Trip

Thomas' distance **away** from Sir Hatt after t min is shown.
For what t is Thomas stationary?



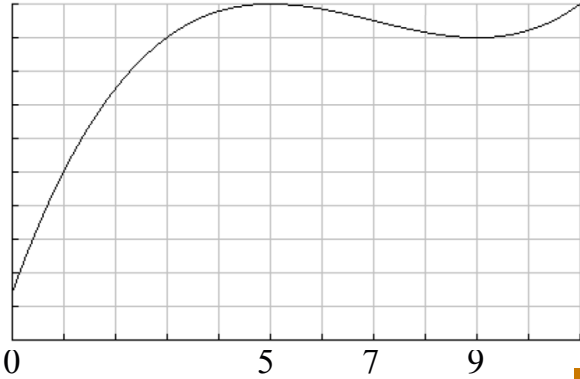
\$200 Question from Road Trip

Thomas' distance **away** from Sir Hatt after t min is shown.
At $t = 5$ what does Thomas do?



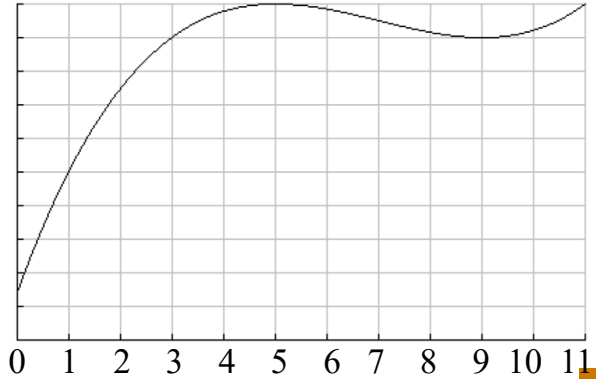
\$300 Question from Road Trip

Thomas' distance **away** from Sir Hatt after t min is shown.
When is the graph concave up?



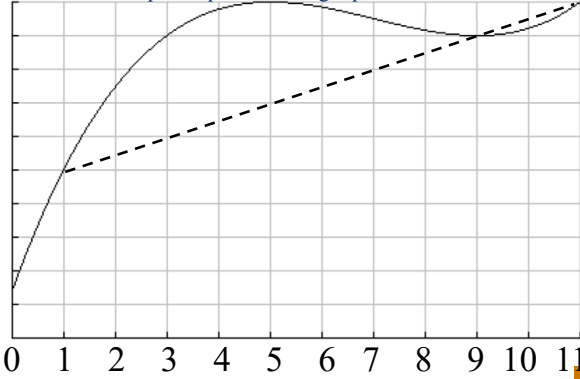
\$400 Question from Road Trip

Thomas' distance **away** from Sir Hatt after t min is shown.
When is Thomas moving the fastest?



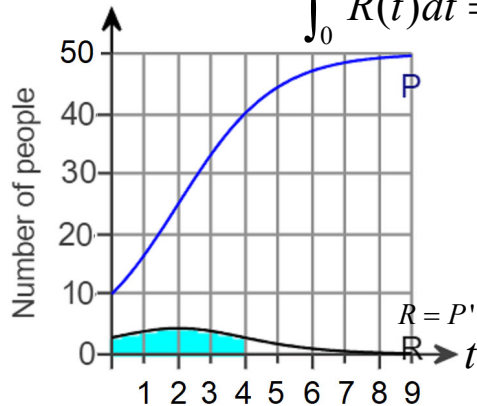
\$500 Question from Road Trip

Thomas' distance **away** from Sir Hatt after t min is shown.
When does his speed equal his average speed on $1 < t < 11$?

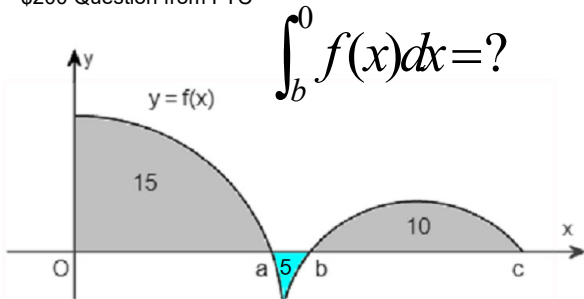


\$100 Question from FTC

$\int_0^4 R(t) dt = ?$



\$200 Question from FTC



\$300 Question from FTC

$$\int_0^4 P'(t) dt$$

Time, t (years)	Profit, P (thousands of dollars)	Marginal Profit, P' (thousands of dollars per year)
0	-6	-48
1	-29	0
2	-10	36
3	39	60
4	106	72

\$400 Question from FTC

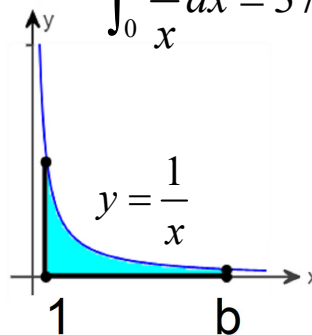
$$g(x) = \int_9^x \ln(\sin(e^{t^3})) dt$$

What is $g'(x)$?

\$500 Question from FTC

What is the exact value of b ?

$$\int_0^b \frac{1}{x} dx = 37$$



\$100 Question from Aunty Derivative

$$\int \frac{1}{x-3} dx$$

\$200 Question from Aunty Derivative

In terms of x please

$$\int \cos 4x dx$$

\$300 Question from Aunty Derivative

$$s'(x) = 8x^3 + 6 \sin x$$

$$\text{and } s'(0) = 7$$

$$s(x) = ?$$

\$400 Question from Aunty Derivative

$$\int (1-t)e^{36t-18t^2} dt$$

\$500 Question from Aunty Derivative

Exact value please

$$\int_0^{1000} e^{-2x} dx$$

