## LET'S PLAY CALC-PARDY!!

## Calc-pardy

Chain Gang	We're Related	Optimus Prime	Vital Signs	Critical Thinking
<u>Q \$200</u>	<u>Q \$200</u>	<u>Q \$200</u>	<u>Q \$200</u>	<u>Q \$200</u>
<u>Q \$400</u>	<u>Q \$400</u>	<u>Q \$400</u>	<u>Q \$400</u>	<u>Q \$400</u>
<u>Q \$600</u>	<u>Q \$600</u>	<u>Q \$600</u>	<u>Q \$600</u>	<u>Q \$600</u>
<u>Q \$800</u>	<u>Q \$800</u>	<u>Q \$800</u>	<u>Q \$800</u>	<u>Q \$800</u>
<u>Q \$1000</u>	<u>Q \$1000</u>	<u>Q \$1000</u>	<u>Q \$1000</u>	<u>Q \$1000</u>

\$200 Question from Chain Gang

Find y' if  $y = \ln x^9$ 

\$400 Question from Chain Gang

Find y' if  
$$y = (5x^{10} + 10)^{20}$$







\$200 Question from We're Related

If a circle's radius increases at 6 cm / s, find the rate the area increases when the radius is 10 cm.

\$400 Question from We're Related

If the sides of a cube increase at 6 cm / s, find the rate the volume increases when the side length is 10 cm.



If the volume V increases at 5 cm <sup>3</sup> / s, and the height h is fixed at 10 cm, find the rate that the base x increases	\$800 Question from V	Ve're Related	
when the base $x = 2$ .	If the volume V increases at 5 cm <sup>3</sup> / s, and the height h is fixed at 10 cm, fir that the base x inc when the base $x =$	ad the rate reases 2.	h

\$1000 Question from	m We're Related
A rectangular tank is filled with 400 cm <sup>3</sup> of water. If the volume decreases a and the base x is fix	h t 4 cm <sup>3</sup> / s t 4 cm, write <i>h</i> as a function of <i>t</i> .





















\$800 Question from Critical Thinking  $f(x) = e^{x}(x-4)$  has critical value at x = 3.



