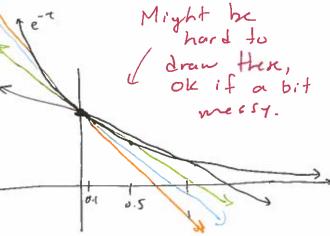
(+1)

2) # 6. Dt | ARC 1 -0.632 0.5 -0.787 (D) for 0.1 -0.952 0.01 -0.995 Might



#18 Scens like Slopes limit to -1 ! Target Ine: [7=-t+1], (F) de if they use desiral cluse to -1. The demative at a point is the stepe of the tangent line. (I) as long as what they write is true. Examples: * dernature of position is velocity. * dernature of velocity is occalentar. > to time * demadre of population is the population growth * derivative of totalineme is your hearly wage . * Other examples ok if valid. +1 for each example, total

.

of +2.

Problem 4:
$$h(r) = 2.3 + 6r^{3}$$
 at $r = 4$.

 $\frac{dh}{dr} = \frac{dh}{r = 4} \approx \frac{h(4 + 0.0001) - h(4)}{0.0001} \approx 288.007$.

Shope = 288.007 (4)

 $\frac{dh}{dr} = 288.007$ (7)

 $\frac{dh}{dr} = 288.007$ (8)

 $\frac{dh}{dr} = 288.007$ (9)

 $\frac{dh}{dr} = 288.007$ (9)

Cruess: ds | at | = 0. Can also see using the graph!

6) 21:
$$\lim_{x \to 1^{-}} f(x) = 1 = 1$$

1/4

 $\lim_{x \to 1^{+}} f(x) = 1$
 $\lim_{x \to 1^{+}} f(x) = 1$

23:
$$\lim_{x \to 1^{+}} y = 0.1$$
 $\lim_{x \to 1^{+}} y = 0.002 \text{ ish.}$

$$\lim_{x\to 1^+} f(x) = 0$$

$$\lim_{x\to 1^+} f(x) = 2.$$

$$\frac{f}{2} = \frac{f(1+\Delta x) - f(n)}{\Delta x}$$

$$= \frac{f(1+\Delta x)^2 - 5}{\Delta x}$$

$$\lim_{\Delta x \to 0} \frac{\Delta f}{\Delta x} = \lim_{\Delta x \to 0} \frac{|\cos x + 5(\alpha x)|^2}{|\cos x|}$$

$$= \lim_{\Delta x \to 0} (10 + 5\Delta x) = 10.$$

decimal approximation as long as it isn't afound by single value of DX.