

2. (a) $(e^3)^{\frac{4}{3}}$ (b) $(e^{\frac{1}{3}})(e^4)$ (c) $(e^{-4})^{-2}$ (d) $e^3 e^{-4}$

$= e^{3 \cdot \frac{4}{3}}$ $= e^{\frac{1}{3} + 4}$ $= (e^8)$ $= e^3 \cdot e^4$

$= (e^4)$ $= (e^{\frac{13}{3}})$ $= e^{3+4}$

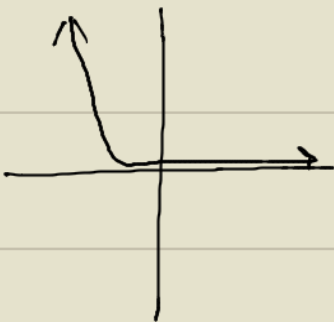
$= (e^7)$

4. $f(x) = e^{3x}$

x	y
-2	$e^{3(-2)} = e^{-6} = \frac{1}{e^6} = .002$
-1	$e^{3(-1)} = e^{-3} = \frac{1}{e^3} = .05$
0	$e^{3(0)} = e^0 = 1$
1	$e^{3(1)} = e^3 = 20$
2	$e^{3(2)} = e^6 = 403$



5. $f(x) = e^{-x-3}$



6. $f(x) = e^x + 2$

