PROPERTIES

1. $e^m \cdot e^n = e^{m+n}$
2. $(e^m)^n = e^{m \cdot n}$
3. $e^0 = 1$
4. $e^{-2} = \frac{e^{-2}}{1} = \frac{1}{e^2}$
5. $\frac{1}{e^{-3}} = \frac{e^3}{1}$
6. $\left(\frac{1}{e}\right)^{-2} = \left(\frac{e}{1}\right)^2$
7. $(\quad)^m =$ TAKE EVERYTHING TO THAT POWER

EVERYTHING INSIDE IS EITHER MULTIPLICATION OR DIVISION

8. $\frac{e^2}{e^7}$ SUBTRACT SMALLER POWER FROM LARGER POWER AND YOU HAVE e TO THAT POWER WHERE THE LARGER EXPONENT WAS

1. (a) $e^4 \cdot e^5 = e^{4+5} = e^9$

(b) $e \cdot e^{-6} = \frac{e^1 \cdot e^{-6}}{1} = \frac{e^1}{e^6} = \frac{1}{e^5}$

(c) $(e^7)^3 = e^{7 \cdot 3} = e^{21}$

(d) $e^{-2} = \frac{e^{-2}}{1} = \frac{1}{e^2}$