Write the new function for each translation of the parent function $y = 4(\frac{2}{3})^x$

8. 6 units down

$y = 4(\frac{2}{3})^x - 6$

9. 5 units left

$y = 4(\frac{2}{3})^{x+5}$

10. 4 units right and 3 units up.

$y = 4(\frac{2}{3})^{x-4} + 3$

11. Evaluate each expression to 4 decimal places:

a) e^4 b) $e^{\frac{2}{3}}$ c) e^{-3}

54.5982 1.9477 .0498

12. Suppose you open an account with \$15000, at 1.3% interest, compounded continuously.

a) How much is in the account after 3 years?

$A = 15000e^{3(.013)} = \$15596.56$

b) How much is in the account after 20 years?

$A = 15000e^{20(.013)} = \$19453.95$