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These are alleged answers. For each error herein, you get extra-credit points for being the first to report it by e-mail.

1 $y = 3^x$

2 $y = 5 \left(\frac{9}{5}\right)^{x/2}$

3 $f(x) = 5 \left(\frac{9}{5}\right)^{(x-3)/7}$

4 $f(x) = 9 \cdot \left(\frac{7}{9}\right)^{(t-2)/3}$

5 The run is 8, so $f(x) = \frac{4}{9} \cdot a^x$, where

$$\frac{4}{9} \cdot a^8 = \frac{1}{4} \quad \text{or} \quad a^8 = \frac{9}{16}$$

Thus $a = \left(\frac{9}{16}\right)^{1/8}$.

Thus $f(x) = \frac{4}{9} \cdot \left(\frac{9}{16}\right)^{(x+2)/8}$.

Thus $f(2) = \frac{1}{3}$.

6 $N(t) = 50,000 \cdot \left(\frac{17}{5}\right)^{t/4}$

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