Quiz 3

Name(s):

Show *all* your work. Reasonable supporting work must be shown for any partial credit.

1. [2] Simplify: $\left(\dfrac{-x^3}{2}\right)^2 (8x^{-2})$
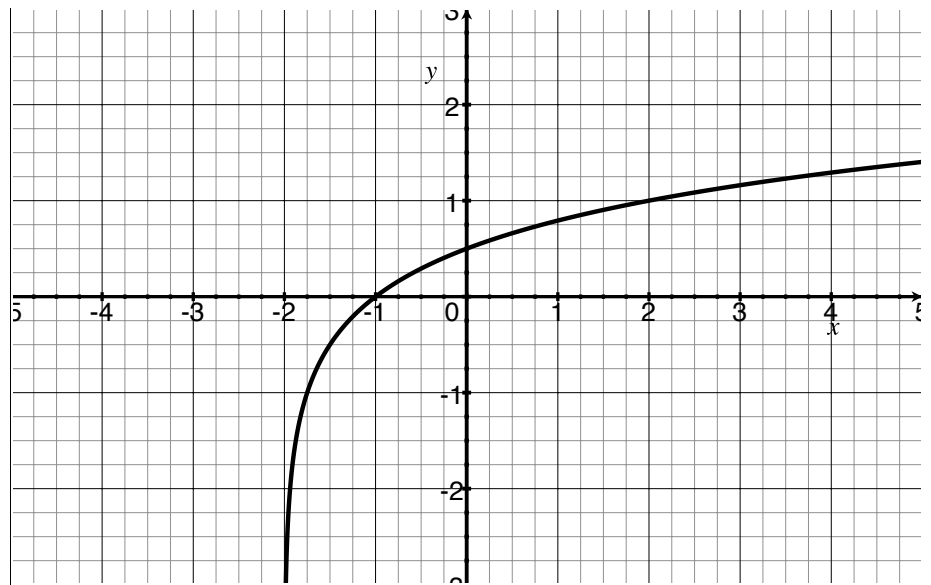
2. [2] Find x given: $5 \cdot 2^x - 7 = 10$. (decimal or "exact" answers are both ok)

3. Let f be the logarithmic function that has been horizontally shifted & graphed below.

   (a) [1] Estimate $f(-1)$.

   (b) [1] What is the domain of f?

   (c) [1] Describe how the graph of? $f(x)$ can be obtained from the graph of a basic logarithmic function.

   (d) [3] Find the algebraic rule for the function f.

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