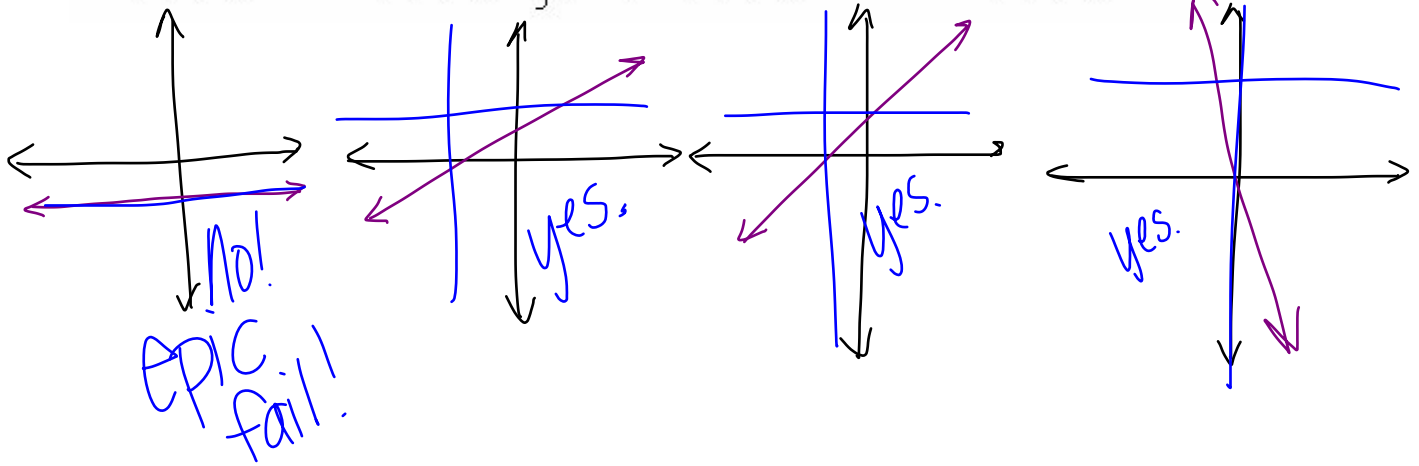


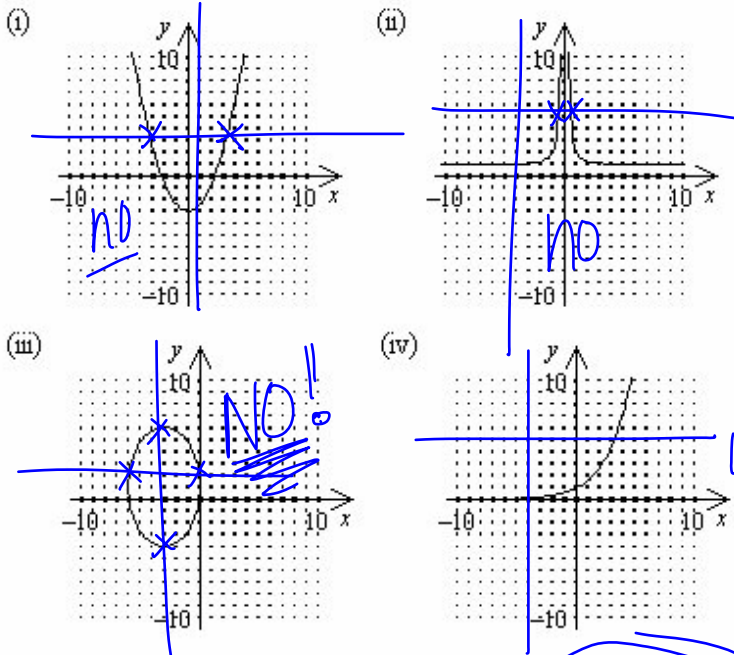
AM Objective #15: Determine if functions are one-to-one

1. Which of the following is *not* a one-to-one function?

- [A]  $f(x) = -2$     [B]  $f(x) = \frac{1}{5}(x+2)$     [C]  $f(x) = x+2$     [D]  $f(x) = -2x$



2. Determine which of the following *is/are* one-to-one functions.



- [A] i, ii, and iv only    [B] i and iv only    [C] iv only    [D] ii and iv only

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3. Which of the following is a one-to-one function?

[A]  $\{(6, 4), (-2, 2), (6, -5), (2, -2)\}$  *not a function* [B]  $\{(6, 4), (-2, -7), (-7, -2), (3, 3)\}$

[C]  $\{(6, 4), (-2, 2), (-7, -7), (-2, 7)\}$  *not a function* [D]  $\{(6, 4), (-2, 2), (-7, -5), (3, 4)\}$

*The y value 4 has two x-values  $\Rightarrow$  not one-to-one.*

4. Is  $\{(-2, -4), (3, -8), (0, 0), (-1, -8)\}$  a one-to-one function?

*No, the y value -8 has two x values.*