Domain and Range for Continuous Relations
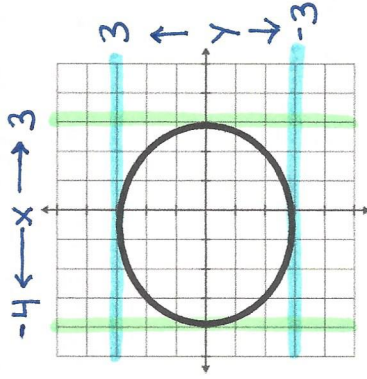
Remember: ≤ "Less than or equal to"

≥ "Greater than or equal to"

1
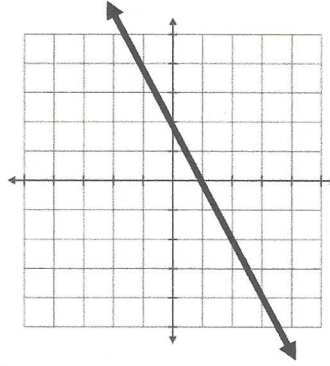
Domain: $-4 \leq x \leq 3$

Range: $-3 \leq y \leq 3$

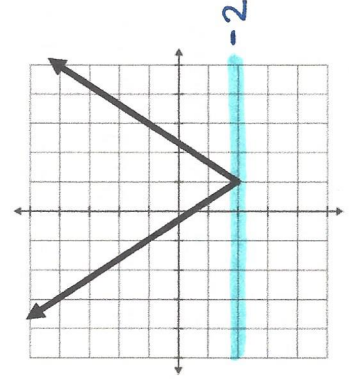Function? **NO**, because... fails VLT ☹ ✗

2

Domain: $\mathbb{R}$

Range: $\mathbb{R}$

Function? **Yes**, because... passes VLT ☺
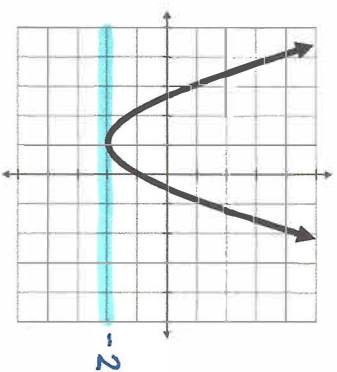
3

Domain: $\mathbb{R}$

Range: $y \geq -2$

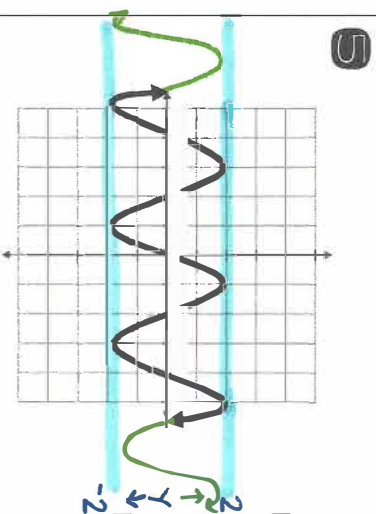Function? **Yes**, because... passes VLT ☺

1

Domain: $\mathbb{R}$

Range: $y \geq -2$

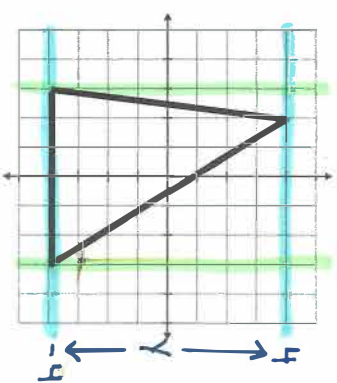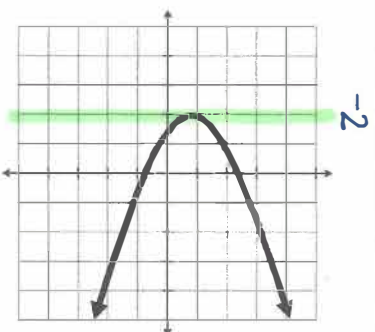Function? __Yes__, because...

passes VLT! ☺

-2

5

Domain: $\mathbb{R}$

Range: $-2 \leq y \leq 2$

Function? __Yes__, because...

passes the VLT! ☺

-2

3

Domain: $-3 \leq x \leq 3$

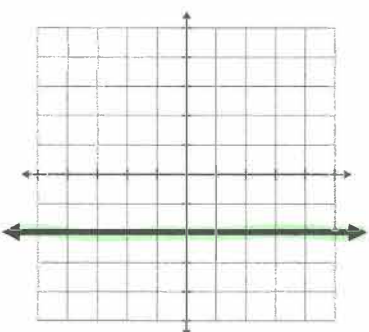Range: $-4 \leq y \leq 4$

Function? __NO__, because...

fails VLT! ☹ X

-3 ←x→ 3

2

Domain: $x \geq -2$

Range: $\mathbb{R}$

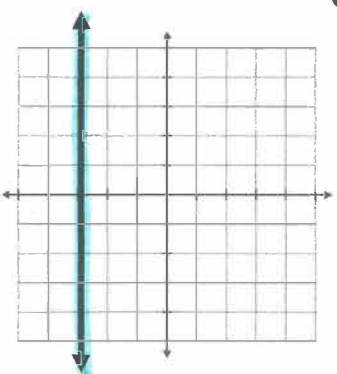Function? __NO__, because...

fails VLT! ☹ X

-2

8

Domain: $x = 2$

Range: $\mathbb{R}$

Function? __NO__, because...

fails VLT! ☹ X

Domain: $\mathbb{R}$

Range: $y = -3$

Function? __Yes__, because...

passes VLT! ☺