

STEP FUNCTIONS

Greatest Integer Function

$$f(x) = \lfloor x \rfloor$$

$$f(5.6) =$$

Ceiling Function

$$f(x) = \lceil x \rceil$$

$$f(5.6) =$$

$$f(x) = \lfloor x \rfloor$$

$$f(1.9) =$$

$$f(2.6) =$$

$$f(3) =$$

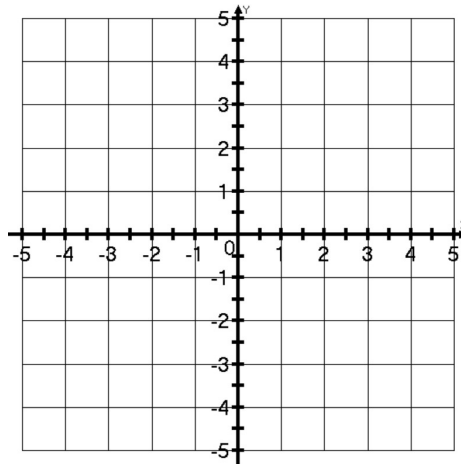
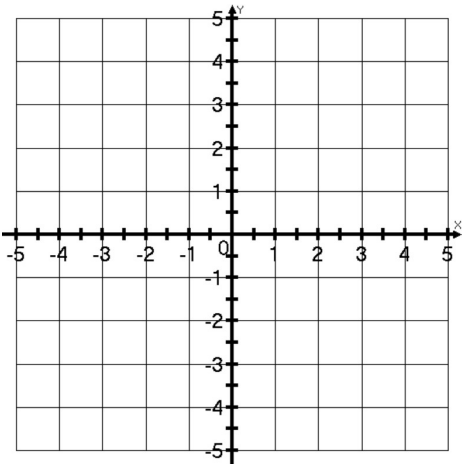
$$f(0) =$$

$$f(-3.7) =$$

$$f(1.1) =$$

$$f(x) = \lfloor x \rfloor$$

$$f(x) = \lceil x \rceil$$



D:

R:

D:

R:

STEP FUNCTIONS

Greatest Integer Function

$$f(x) = \lfloor x \rfloor$$

$$f(5.6) =$$

Ceiling Function

$$f(x) = \lceil x \rceil$$

$$f(5.6) =$$

$$f(x) = \lfloor x \rfloor$$

$$f(1.9) =$$

$$f(2.6) =$$

$$f(3) =$$

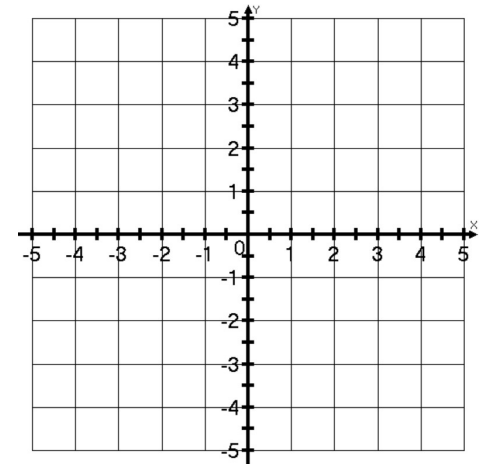
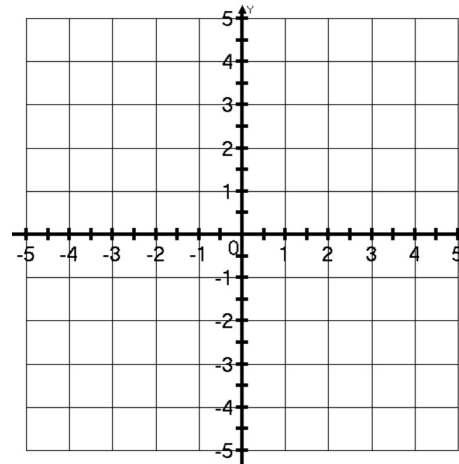
$$f(0) =$$

$$f(-3.7) =$$

$$f(1.1) =$$

$$f(x) = \lfloor x \rfloor$$

$$f(x) = \lceil x \rceil$$



D:

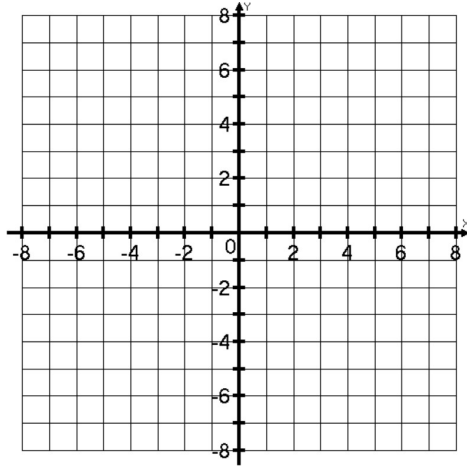
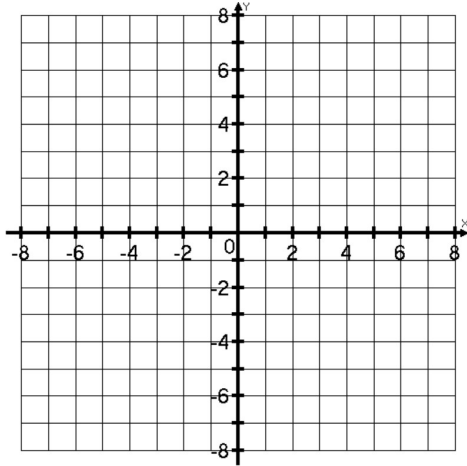
R:

D:

R:

Ex. 3 $f(x) = \left\lfloor \frac{1}{2}x - 1 \right\rfloor + 3$
 $-2 < x < 4$

Ex. 4 $f(x) = -2\lceil x - 2 \rceil + 4$
 $-2 < x < 4$



TRANSFORMATIONS OF STEP FUNCTIONS

$$f(x) = a\lceil bx - c \rceil + d$$

GRAPHING STEP FUNCTIONS

- 1.
- 2.
- 3.
- 4.

SOLVING GREATEST INTEGER FUNCTIONS

- 1.
2.
 - a.
 - b.
- 3.

Ex. 1 $f(x) = \lceil 2x \rceil$
 $-2 < x < 4$

Ex. 2 $f(x) = \left\lfloor \frac{1}{2}x \right\rfloor$
 $-2 < x < 4$

Ex 4. $2\lceil x + 3 \rceil - 4 = 12$

Ex. 5 $\lceil 2x - 1 \rceil + 3 = 10$

