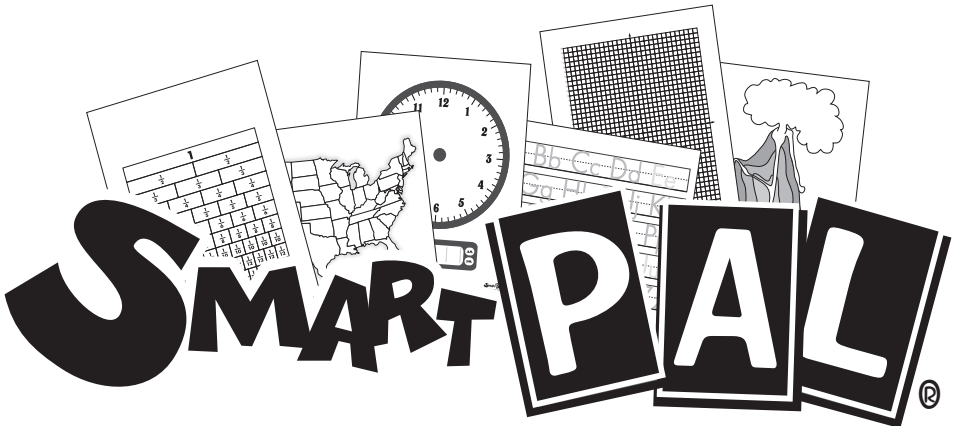
EAI®
EDUCATION



SMART PAL®
GUIDES

Algebra 1
and
Algebra 2

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Printed in the United States of America

Associative or Commutative?

Property

1) $x + (3y + 2) = (x + 3y) + 2$ _____

2) $(4a + 3b) \cdot 2c = 2c \cdot (4a + 3b)$ _____

3) $^{-}4h \cdot (2k \cdot 5n) = {}^{-}4h \cdot (5n \cdot 2k)$ _____

4) $(^{-}3x + 8y) + 6z = {}^{-}3x + (8y + 6z)$ _____

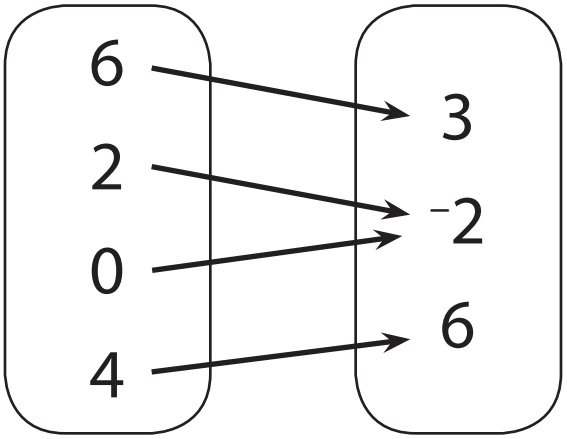
5) _____ = _____ _____

6) _____ = _____ _____

Properties: Associative and Commutative

Determine if the mapping is a function. Express each relation as a set of ordered pairs.

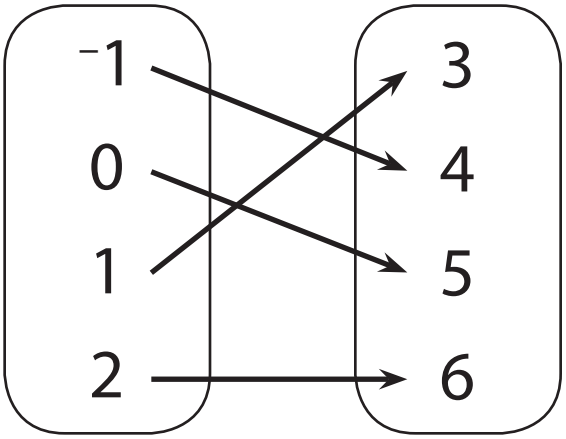
1)



Function? _____

Ordered Pairs?

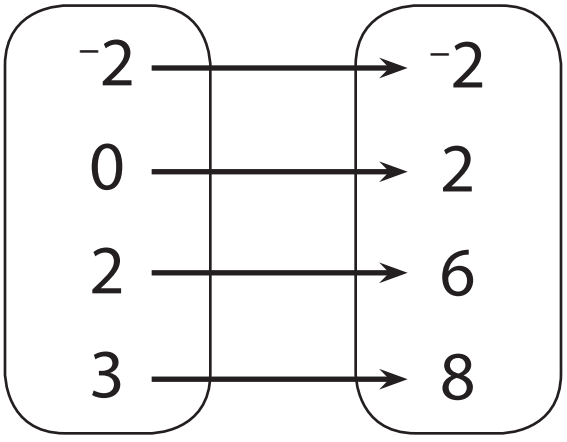
2)



Function? _____

Ordered Pairs?

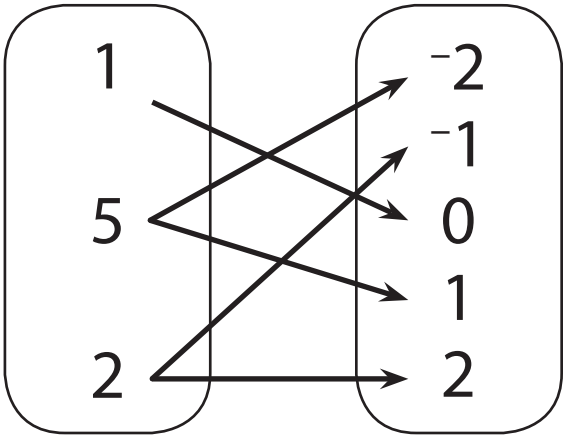
3)



Function? _____

Ordered Pairs?

4)



Function? _____

Ordered Pairs?

Graph Each

$x > -1$

$x \leq 5$

What is

$x > -1$ and $x \leq 5$

This can be written _____

Try

1) $x \geq -3$ and $x < 2$

2) _____ and _____

3) _____ or _____

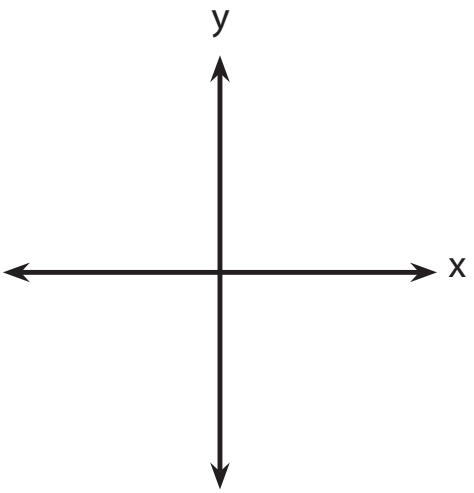
Write the equations of any Asymptotes and locate any holes. Graph each.

1) $f(x) = \frac{x^2 - 2x - 15}{x - 3}$

EQs: (V) _____

(H) _____

(O) _____

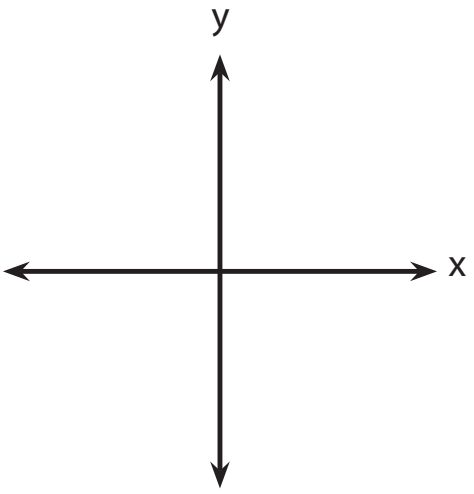


2) $f(x) = \frac{x^2 + 2x - 15}{x - 3}$

EQs: (V) _____

(H) _____

(O) _____

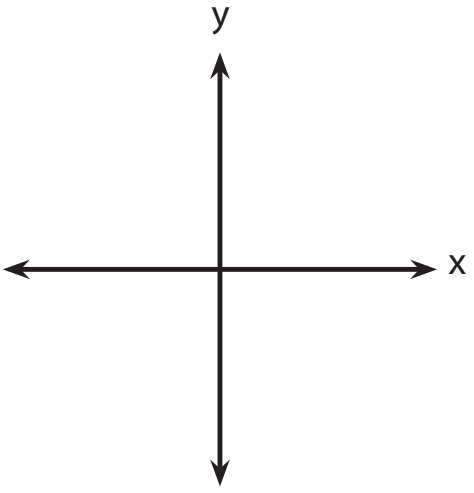


3) $f(x) =$

EQs: (V) _____

(H) _____

(O) _____



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Determine the Number of Solutions

Number of Solutions
(None, One, ∞)

1) $\begin{cases} 3x + 2y = 6 \\ y = 4x + 3 \end{cases}$ _____

2) $\begin{cases} 2x - 3y = 9 \\ {}^{-}4x + 6y = {}^{-}18 \end{cases}$ _____

3) $\begin{cases} x - 5y = 10 \\ 2x - 10y = 30 \end{cases}$ _____

4) $\begin{cases} y = \frac{2}{3}x - 3 \\ 3x - 2y = 7 \end{cases}$ _____

5) $\begin{cases} \_\_\_\_\_ \\ \_\_\_\_\_ \end{cases}$ _____

1) Find a_n for the arithmetic sequence:

$^{-}4, ^{-}1, 2, a_{\square}, 8, 11, \ldots$

Common Difference = _____

$\square$ = _____

$a_{\square}$ = _____

2) Find the 12th term for the arithmetic sequence:

27, 22, 17, . . .

3) Find the ____ term for the arithmetic sequence:

. . . , _____ , _____ , _____ , _____ , . . .

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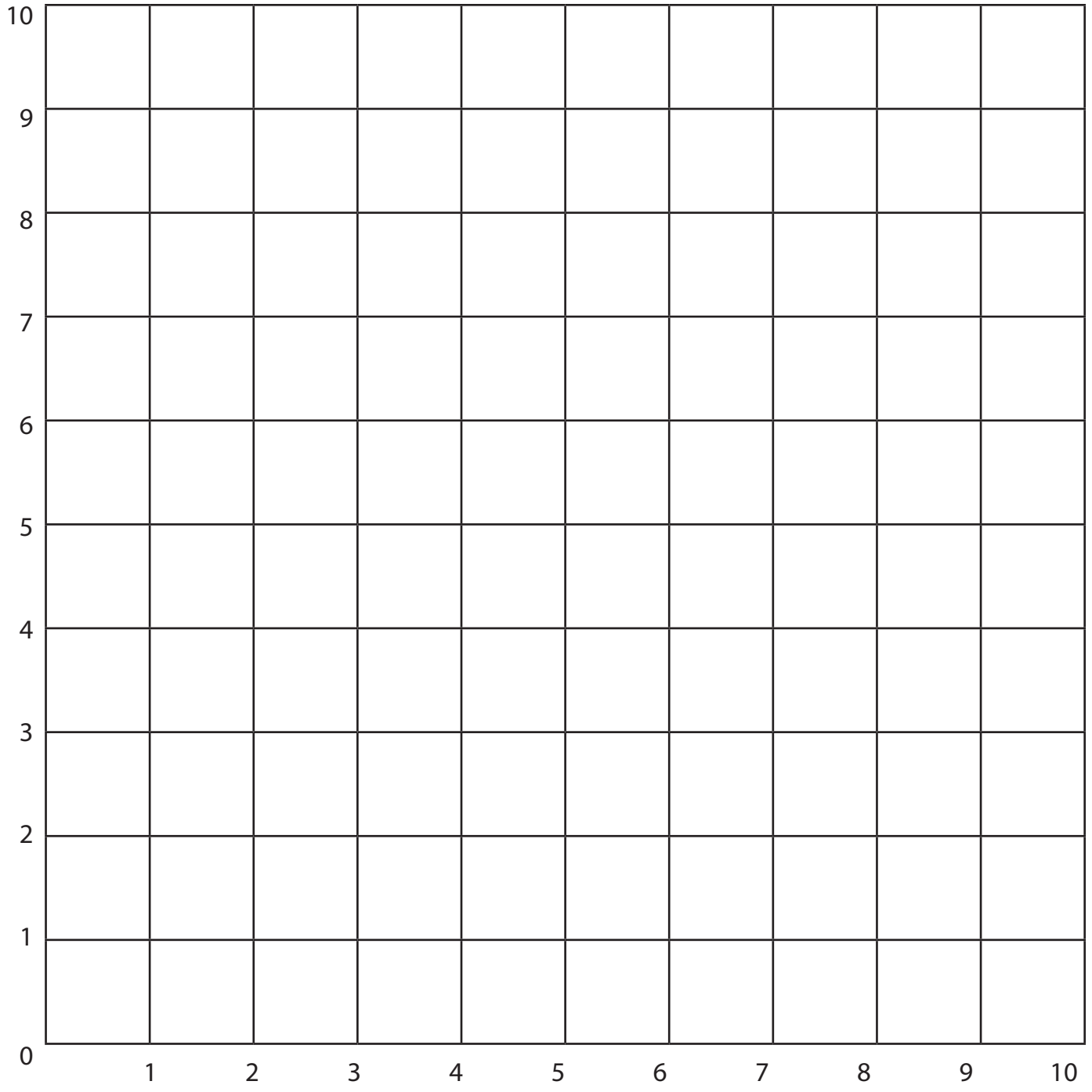
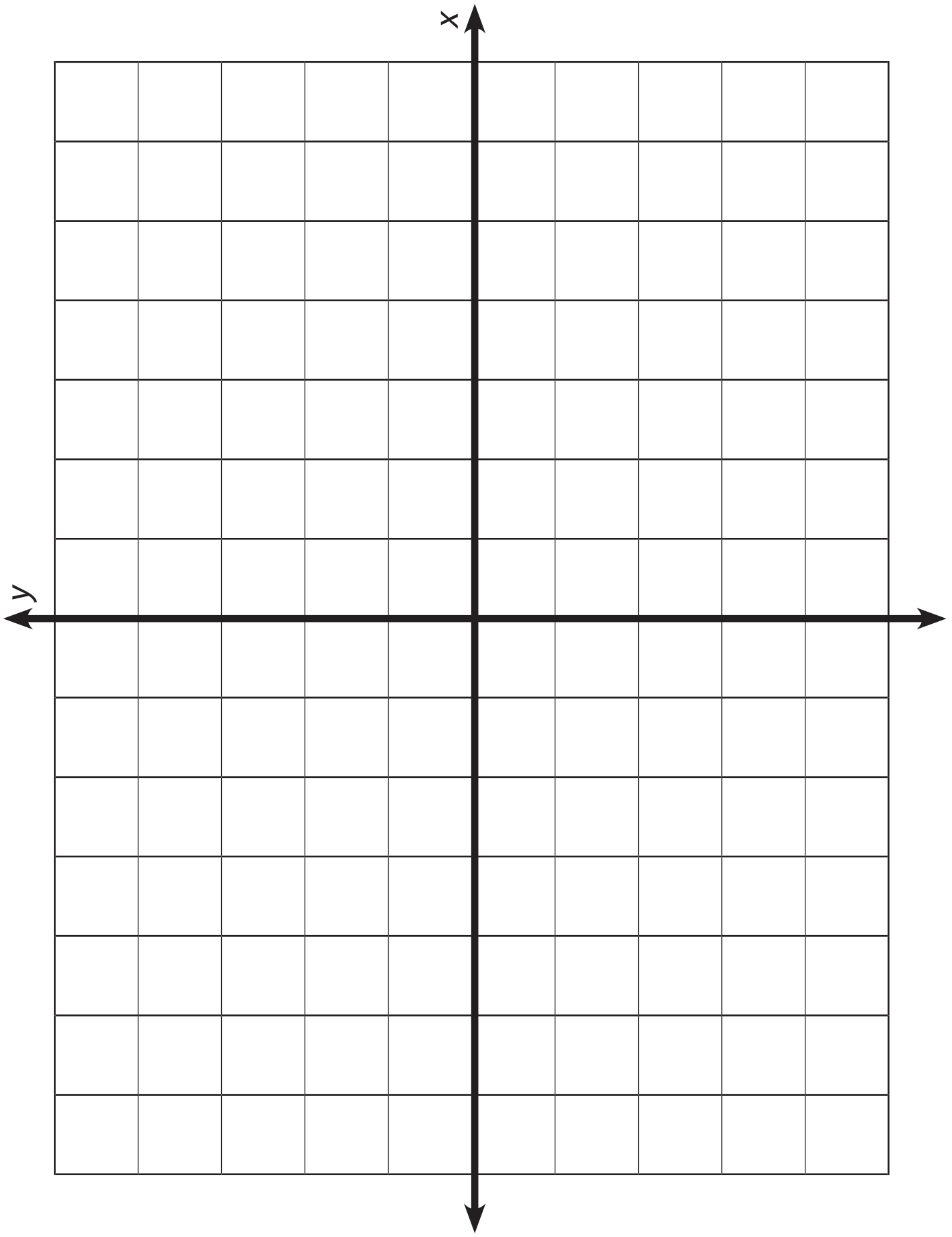


1st Quadrant Grid



Coordinate Grid: 7 × 5 Blank