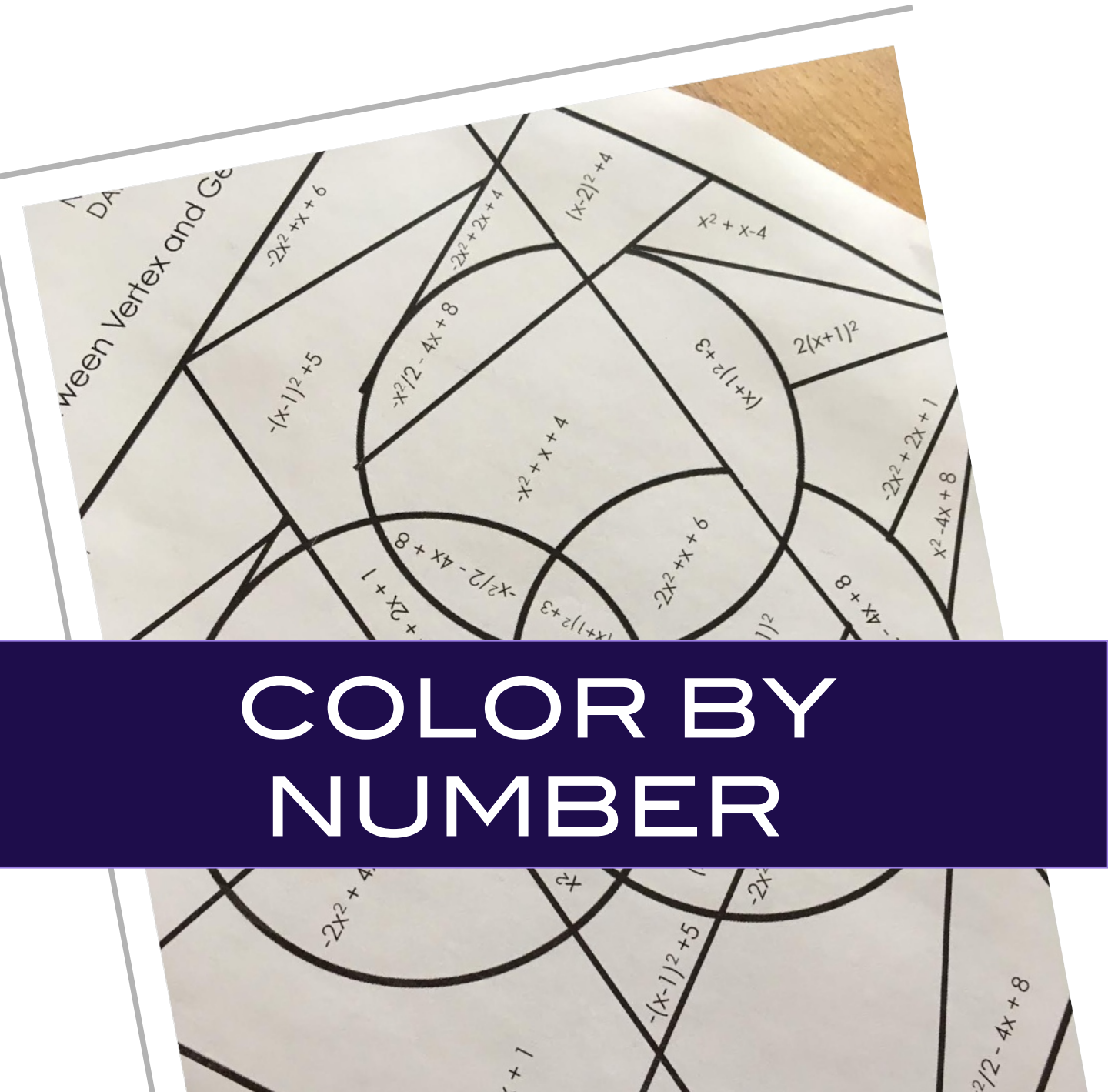
Functions:
Converting between Vertex and Standard Form

EDUCATION with DOCRUNNING



COLOR BY NUMBER

Overview

Functions: Converting between Vertex and General Form: Color by Number is a fun way for students to practice Functions: Converting between Vertex and General Form.

Guidelines:

- Give each student page 3 and 4.
- Students complete the problems on page 4. Students color page 3 based on their calculations.
- Give to students individually, provide at centers, and/or use with partners.

A great addition to your Pre-Calculus or Calculus class.

Cheers,

DocRunning

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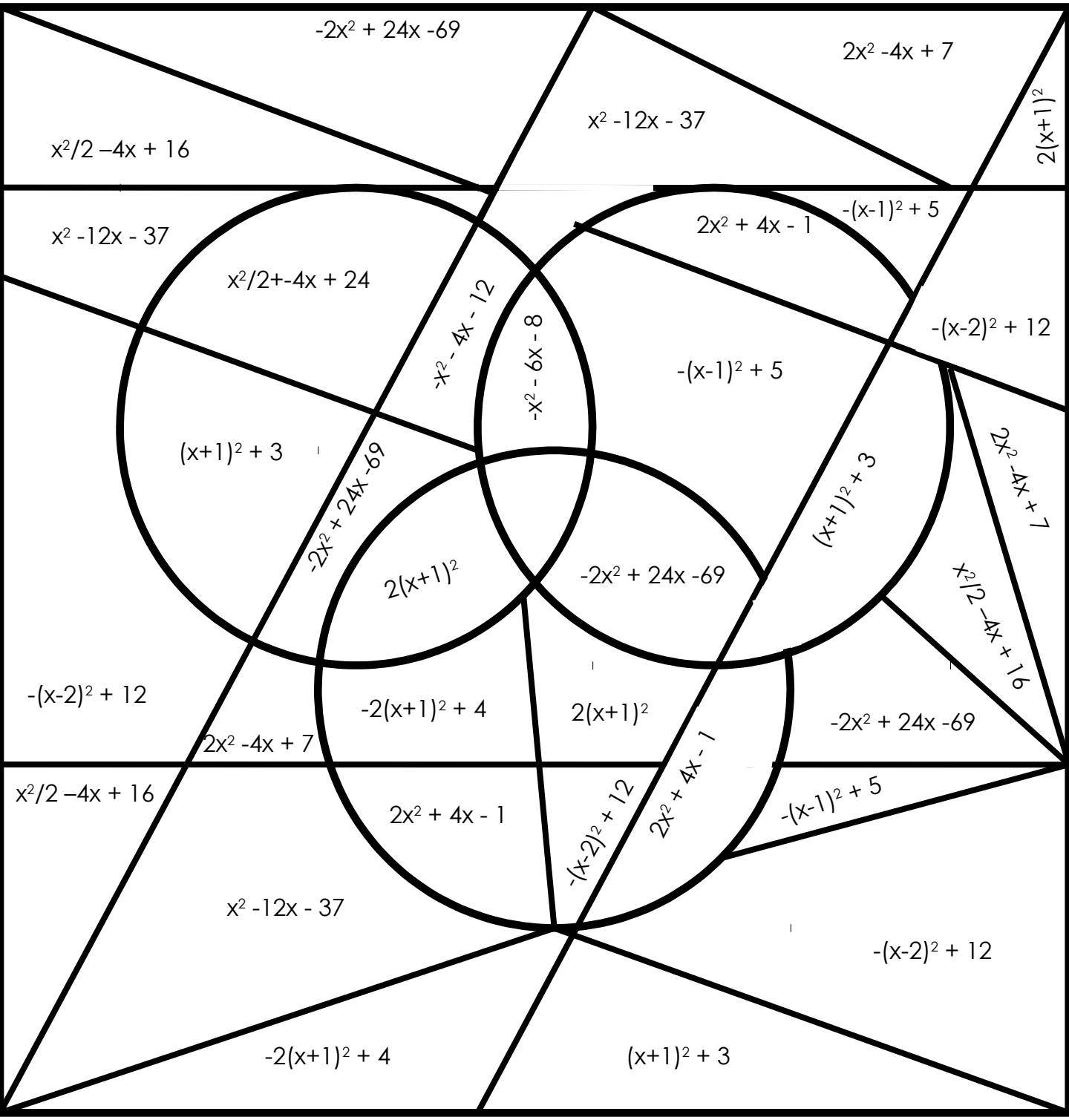
Functions: Converting between Vertex and General Form: Color by number

NAME_____

DATE_____

Functions: Converting between Vertex and General Form



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Functions: Converting between Vertex and General Form: Color By Number

NAME_____

Directions:

•Convert the given quadratic functions.

•Find the solutions on the design and color accordingly.

Quadratic Function in General Form	Quadratic Function in Vertex Form	Color
$x^2 + 2x + 4$		Blue
$-x^2 + 2x + 4$		Purple
$2x^2 + 4x + 2$		Green
$-2x^2 + 4x + 2$		Blue
$-x^2 + 4x + 8$		Green

Quadratic Function in Vertex Form	Quadratic Function in General Form	Color
$-(x+2)^2-8$		Purple
$2(x+1)^2-3$		Blue
$-2(x-6)^2 + 3$		Purple
$(\frac{1}{2})(x-4)^2 + 8$		Green
$(\frac{1}{2})(x+4)^2 + 16$		Blue
$-(x+3)^2 + 1$		Blue
$-(x+6)^2 -1$		Purple
$2(x-1)^2 + 5$		Purple

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Functions: Converting between Vertex and General Form: Color By Number

ANSWER KEY

Directions:

•Convert the given quadratic functions.

•Find the solutions on the design and color accordingly.

Quadratic Function in General Form	Quadratic Function in Vertex Form	Color
$x^2 + 2x + 4$	$(x+1)^2 + 3$	Blue
$-x^2 + 2x + 4$	$-(x-1)^2 + 5$	Purple
$2x^2 + 4x + 2$	$2(x+1)^2$	Green
$-2x^2 + 4x + 2$	$-2(x+1)^2 + 4$	Blue
$-x^2 + 4x + 8$	$-(x-2)^2 + 12$	Green

Quadratic Function in Vertex Form	Quadratic Function in General Form	Color
$-(x+2)^2-8$	$-x^2 - 4x - 12$	Purple
$2(x+1)^2-3$	$2x^2 + 4x - 1$	Blue
$-2(x-6)^2 + 3$	$-2x^2 + 24x -69$	Purple
$(½)(x-4)^2 + 8$	$x^2/2 –4x + 16$	Green
$(½)(x+4)^2 + 16$	$x^2/2+-4x + 24$	Blue
$-(x+3)^2 + 1$	$-x^2 - 6x - 8$	Blue
$-(x+6)^2 -1$	$x^2 -12x - 37$	Purple
$2(x-1)^2 + 5$	$2x^2 -4x + 7$	Purple

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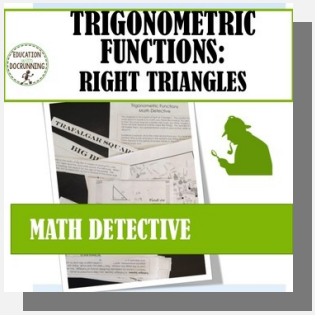
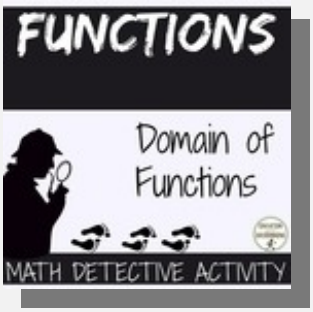
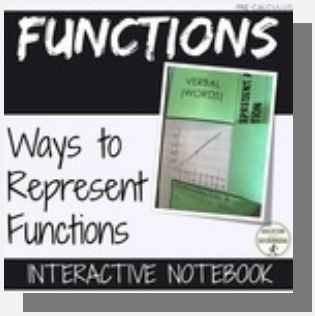
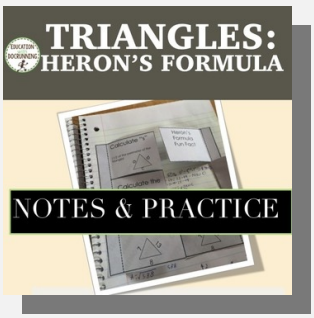
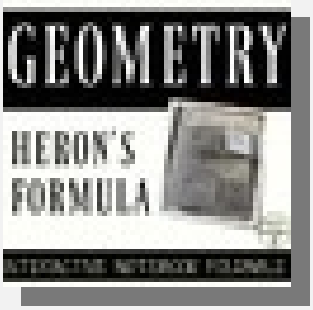
ALSO FROM EDUCATION WITH DOCRUNNING

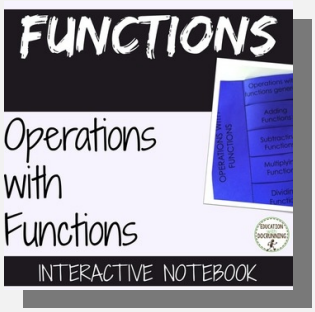


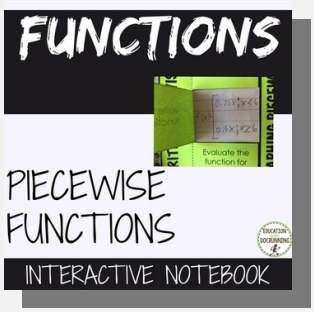


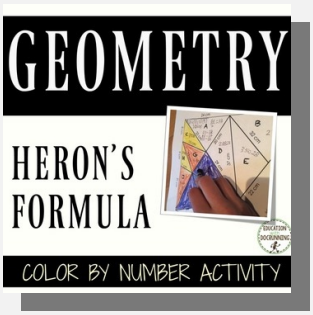


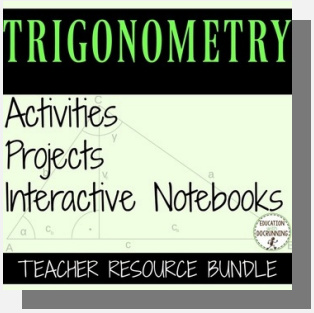


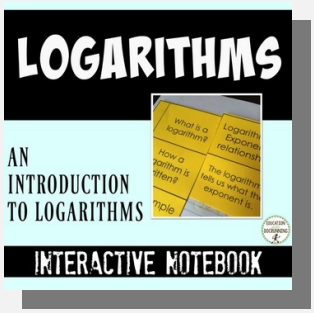


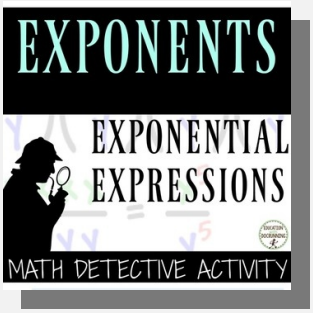












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