How Do They Fit?
Determine the slope and *y*-intercept.

Puzzle:
Cut apart the puzzle pieces. On notebook paper, rewrite each equation in slope-intercept form. Match the equation puzzle piece with the piece that has the correct slope and *y*-intercept. You must solve *a minimum of ten* equations.

Outside Edges:
Once the puzzle is complete, there will be three edges that have equations written in Standard Form and nine edges that have a slope and *y*-intercept. Write all 12 of these as equations in slope-intercept form. On graph paper, graph at least 10. Be sure to label each graph with the slope-intercept form equation written on the line. Do **NOT** graph all 10 equations on the same coordinate plane.

$6x + 4y = 0$ $m = \frac{3}{4}, y\text{-int: } (0, 3)$	$x + 3y = -9$ $m = -2, y\text{-int: } (0, -4)$	$3x - y = -5$ $m = 0, y\text{-int: } (0, -7)$
$2x + 7y = 8$ $m = 3, y\text{-int: } (0, -8)$	$7x - 7y = 8$ $m = \frac{5}{2}, y\text{-int: } \left(0, -\frac{1}{3}\right)$	$x - 4y = 40$ $m = 3, y\text{-int: } \left(0, -\frac{4}{3}\right)$
$4x - 3y = 9$ $m = 3, y\text{-int: } (0, 5)$	$5x - 3y = 7$ $m = \frac{5}{3}, y\text{-int: } \left(0, -\frac{7}{3}\right)$	$7x - y = 2$ $m = 7, y\text{-int: } (0, -2)$
$5x + 4y = 10$ $m = -\frac{5}{4}, y\text{-int: } \left(0, -\frac{9}{4}\right)$	$5x - 4y = 9$ $m = -\frac{2}{3}, y\text{-int: } (0, 2)$	$6x - 2y = 16$ $m = 3, y\text{-int: } (0, -8)$
$2x + 3y = 6$ $m = 1, y\text{-int: } (0, 0)$	$2x - 3y = -18$ $m = \frac{2}{3}, y\text{-int: } (0, 6)$	$6x + 4y = 15$ $m = -\frac{3}{2}, y\text{-int: } \left(0, \frac{15}{4}\right)$