

Linear Art with a Twist

- 1) Use a 8"x10½" piece of graph paper.
 - 2) Make your x and y axes intersect close to the middle of the page.
 - 3) Graph these equations:
A) $x=-9$ B) $x=9$ C) $y=-18$ D) $y=4/3x-18$ E) $y=-4/3x-18$ F) $y=-x-3$
G) $y=x-3$ H) $y=4/3x+18$ I) $y=-4/3x+18$ J) $y=-x+3$ K) $y=x+3$
 - 4) Erase the four lines in the middle.
 - 5) Place the highest point of a protractor at the point (0,18)
 - 6) Trace the curve.
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Connect the Points:

- (-3, 13) (0, 3) (3, 13) STOP
(-5, 17) (-7, 13) (-5, 9) (-3, 13) STOP *Erase the lines inside the rhombus
(3, 13) (5, 17) (7, 13) (5, 9) STOP *Erase the lines inside the rhombus
(-3, 2) (-3, -1) (0, -4) (3, -1) (3, 2) (2, 1) (2, 2) (1½, 1½) (1, 2) (0, 1) (-1, 2)
(-1½, 1½) (-2, 2) (-2, 1) (-3, 2) STOP
(-2, 1) (-2, -1) STOP
(-2½, -1½) (0, 1) (2½, -1½) STOP
(-1, 0) (0, -1) (1, 0) STOP
(-1, 0) (-1, 1) (-2, 2) STOP
(-1, 0) (-½, 1) (½, 1) (1, 0) STOP
(1, 0) (1, 1) (2, 2) STOP
(2, 1) (2, -1) STOP
(0, -4) (-½, -5) (0, -6) (½, -7) (0, -8) (-½, -9) (0, -10) (½, -11) (0, -12) (-½, -13) (0, -14) (½, -15) (0, -16) (-½, -17) (0, -18) STOP
(0, -4) (½, -5) (0, -6) (-½, -7) (0, -8) (½, -9) (0, -10) (-½, -11) (0, -12) (½, -13) (0, -14) (-½, -15) (0, -16) (½, -17) (0, -18) STOP
(0, -4) (0, -18) STOP
(0, -6) (2, -6) (2½, -5) (2½, -4) (1½, -4) (0, -6) STOP
(0, -8) (-2, -8) (-2½, -7) (-2½, -6) (-1½, -6) (0, -8) STOP