Name _____ Mr. Schlansky Date _____ Geometry

Line Dilations Centered at a Point

If the point is on the line, the equation does not change If the point is not on the line, use a graph

1. Dilate y = 2x - 1 by a scale factor of 2 centered at (2,3)







4. Dilate y = 3x - 2 by a scale factor of 4 centered at (-1, -5)

5.	Dilate	y + x = 3	by a scale	factor of 2	centered at	(-1	.,6	5)
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7. Dilate 2y = 4x + 2 by a scale factor of 4 centered at (-1, 4)



9. Dilate 2y = 5x + 4 by a scale factor of 2 centered at (1, -1)















11. Dilate 2y = 3x + 4 by a scale factor of 2 centered at (2,5)

12. Dilate 2y + 6x = 4 by a scale factor of 3 centered at (-7,3)