

Name _____

Date _____

Dilations and Parallel Lines - Independent Practice Worksheet

Complete all the problems. Write all your answers in slope-intercept form.

1. Line l has the equation $y = -\frac{1}{4}x - 4$.

Write the equation of the image of l after dilation with a scale factor of $\frac{1}{4}$, centered at the origin.

2. Line l has the equation $y = 5x - 5$.

Write the equation of the image of l after dilation with a scale factor of $\frac{1}{5}$, centered at the origin.

3. Line l has the equation $y = -\frac{1}{4}x - 3$.

Write the equation of the image of l after dilation with a scale factor of 2, centered at the origin.

4. Line l has the equation $y = \frac{1}{4}x - 2$.

Write the equation of the image of l after dilation with a scale factor of $\frac{1}{2}$, centered at the origin.

5. Line l has the equation $y = \frac{1}{2}x + 3$.

Write the equation of the image of l after dilation with a scale factor of $\frac{1}{3}$, centered at the origin.

6. Line l has the equation $y = -2x - 1$.

Write the equation of the image of l after dilation with a scale factor of 5, centered at the origin.



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7. Line l has the equation $y = \frac{1}{3}x - 1$.

Write the equation of the image of l after dilation with a scale factor of 4, centered at the origin.

8. Line l has the equation $y = -5x + 2$.

Write the equation of the image of l after dilation with a scale factor of 3, centered at the origin.

9. Line l has the equation $y = \frac{1}{5}x - 8$.

Write the equation of the image of l after dilation with a scale factor of $\frac{1}{4}$, centered at the origin.

10. Line l has the equation $y = 2x - 5$.

Write the equation of the image of l after dilation with a scale factor of $\frac{1}{5}$, centered at the origin.

