NAME:_____

1. Find the image of (4, 8) for a dilation centered at the origin with scale factor 3.

    [1] _____

2. Find the image of (3, –2) for a dilation centered at the origin with scale factor $\frac{1}{2}$.

    [2] _____

3. Find the image of (–2, 1) for a dilation centered at the origin with scale factor 2.

    [3] _____

4. Find the image of (–6, –6) for a dilation centered at the origin with scale factor $\frac{3}{4}$.

    [4] _____

5. Find the image of (5, 5) for a dilation centered at the origin with scale factor $\frac{3}{4}$.

    [5] _____

6. Find the image of (1, –9) for a dilation centered at the origin with scale factor 2.

    [6] _____

7. Find the image of (8, 3) for a dilation centered at the origin with scale factor 3.

    [7] _____

8. Find the image of (–7, 7) for a dilation centered at the origin with scale factor $\frac{1}{2}$.

    [8] _____

9. Find the image of (–9, –4) for a dilation centered at the origin with scale factor $\frac{3}{4}$.

    [9] _____

10. Find the image of (4, 2) for a dilation centered at the origin with scale factor 2.

    [10] _____

[1] $(12,\ 24)$

[2] $\left(\dfrac{3}{2},\ -1\right)$

[3] $(-4,\ 2)$

[4] $\left(-\dfrac{9}{2},\ -\dfrac{9}{2}\right)$

[5] $\left(\dfrac{15}{4},\ \dfrac{15}{4}\right)$

[6] $(2,\ -18)$

[7] $(24,\ 9)$

[8] $\left(-\dfrac{7}{2},\ \dfrac{7}{2}\right)$

[9] $\left(-\dfrac{27}{4},\ -3\right)$

[10] $(8,\ 4)$