

1. Given the line given by the equation: $-4 + 5y = -x$, what is the equation of the line dilated by a scale factor 5 centered at $(7, -1)$?

2. Given the line given by the equation: $-y = x - 7$, what is the equation of the line dilated by a scale factor $\frac{6}{7}$ centered at $(-1, 8)$?

3. Given the line given by the equation: $y + 3x = -1$, what is the equation of the line dilated by a scale factor 5 centered at $(-3, 8)$?

4. Given the line given by the equation: $-5 - 4y = 4x$, what is the equation of the line dilated by a scale factor 8 centered at $(-19, 18)$?

5. Given the line given by the equation: $-8 + 10y = -5x$, what is the equation of the line dilated by a scale factor 10 centered at $(-20, 11)$?

6. Given the line given by the equation: $-x - y = -2$, what is the equation of the line dilated by a scale factor $\frac{1}{2}$ centered at $(-11, 13)$?

7. Given the line given by the equation: $-y = -x + 3$, what is the equation of the line dilated by a scale factor $\frac{1}{3}$ centered at $(-10, -13)$?

8. Given the line given by the equation: $-7y + 8 = 10x$, what is the equation of the line dilated by a scale factor 14 centered at $(-7, 11)$?

9. Given the line given by the equation: $x + y = 5$, what is the equation of the line dilated by a scale factor $\frac{1}{5}$ centered at $(4, 1)$?

10. Given the line given by the equation: $-3 - 5y = 8x$, what is the equation of the line dilated by a scale factor 5 centered at $(-11, 17)$?

11. Given the line given by the equation: $-6y - x = 10$, what is the equation of the line dilated by a scale factor 3 centered at $(20, -5)$?

12. Given the line given by the equation: $y - x = 2$, what is the equation of the line dilated by a scale factor $\frac{1}{2}$ centered at $(-13, -11)$?

13. Given the line given by the equation: $y - x = 4$, what is the equation of the line dilated by a scale factor $\frac{1}{2}$ centered at $(7, 11)$?

14. Given the line given by the equation: $-y + x = -3$, what is the equation of the line dilated by a scale factor $\frac{1}{3}$ centered at $(-10, -7)$?

15. Given the line given by the equation: $y - 7 = x$, what is the equation of the line dilated by a scale factor $\frac{2}{7}$ centered at $(6, 13)$?

16. Given the line given by the equation: $-x - 7y = 1$, what is the equation of the line dilated by a scale factor 7 centered at $(-7, 1)$?

17. Given the line given by the equation: $y - 1 = -4x$, what is the equation of the line dilated by a scale factor 5 centered at $(0, 1)$?

18. Given the line given by the equation: $y - 7x = -7$, what is the equation of the line dilated by a scale factor $\frac{2}{7}$ centered at $(2, 7)$?

19. Given the line given by the equation: $-3y = 8x$, what is the equation of the line dilated by a scale factor centered at $(1, -3)$?

20. Given the line given by the equation: $-y - x = 4$, what is the equation of the line dilated by a scale factor $\frac{1}{2}$ centered at $(-12, 8)$?

21. Given the line given by the equation: $10y + x = -3$, what is the equation of the line dilated by a scale factor 20 centered at $(-13, 1)$?

22. Given the line given by the equation: $y + x = -7$, what is the equation of the line dilated by a scale factor $\frac{6}{7}$ centered at $(-11, 4)$?

23. Given the line given by the equation: $-y - 7 = x$, what is the equation of the line dilated by a scale factor $\frac{5}{7}$ centered at $(-16, 9)$?

24. Given the line given by the equation: $-6x + y = -3$, what is the equation of the line dilated by a scale factor $\frac{2}{3}$ centered at $(-2, -15)$?

25. Given the line given by the equation: $4y + 1 = -2x$, what is the equation of the line dilated by a scale factor 4 centered at $(8, -4)$?