

Name: \_\_\_\_\_ Mr. Ayer  
\_\_\_\_\_ /50 (2 Points Each)

H Geometry Summer Assignment

Multiply the Following:

1.  $(2x - 4)(6x + 2)$

2.  $(3x - 2)(2x + 2)(5x - 4)$

3.  $4(2x - 3)(x^2)(-x)$

Solve Each:

4.  $x^2 = 16$

5.  $|x - 3| = 8$

6.  $\frac{x}{2} = \frac{13}{5}$

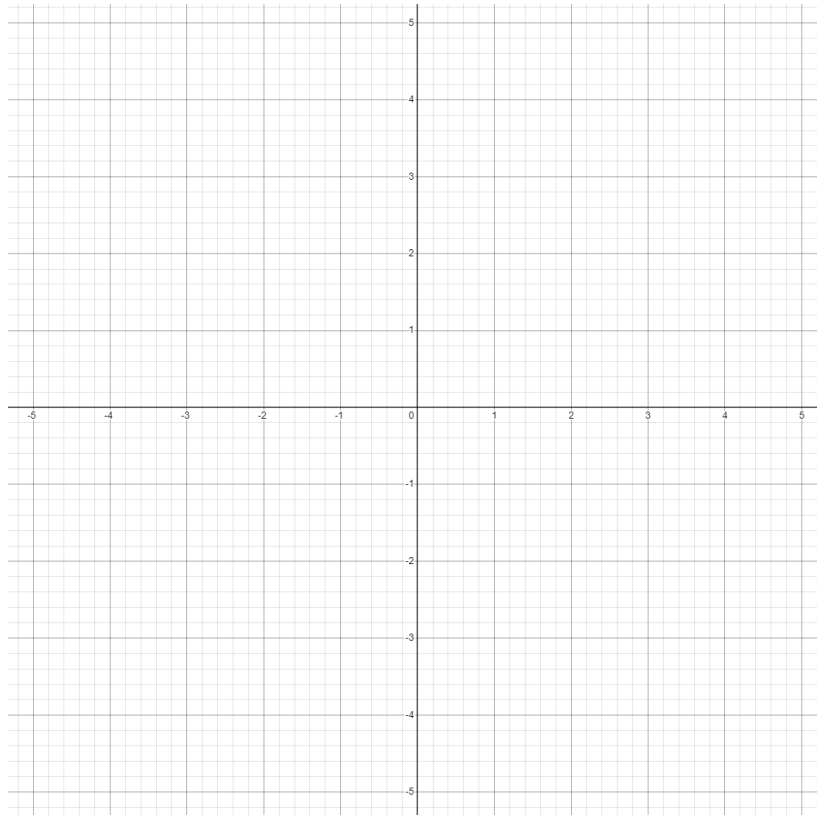
7.  $\frac{4}{x} = \frac{9}{4}$

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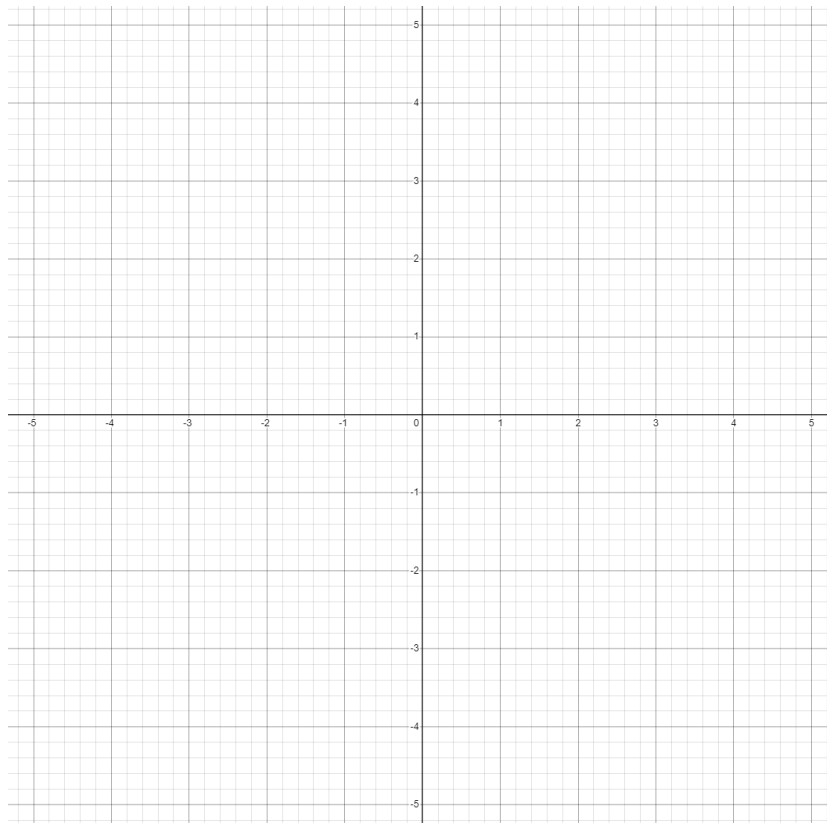
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Graph the Following:

8.  $y = \frac{1}{2}x + 1$



9.  $y = 2x - 3$



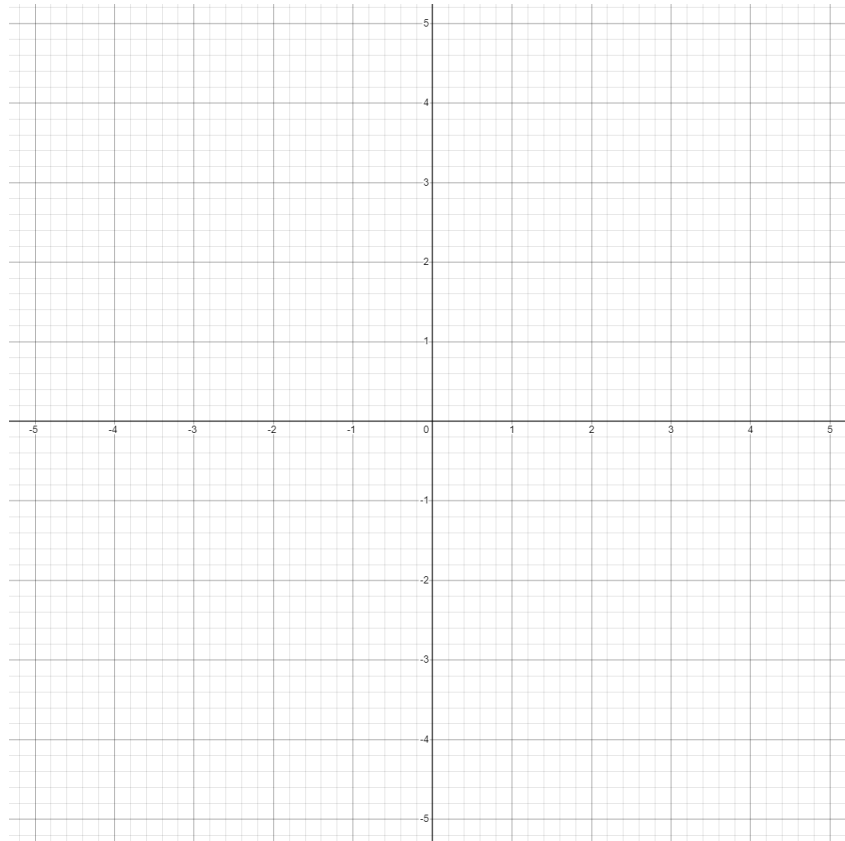
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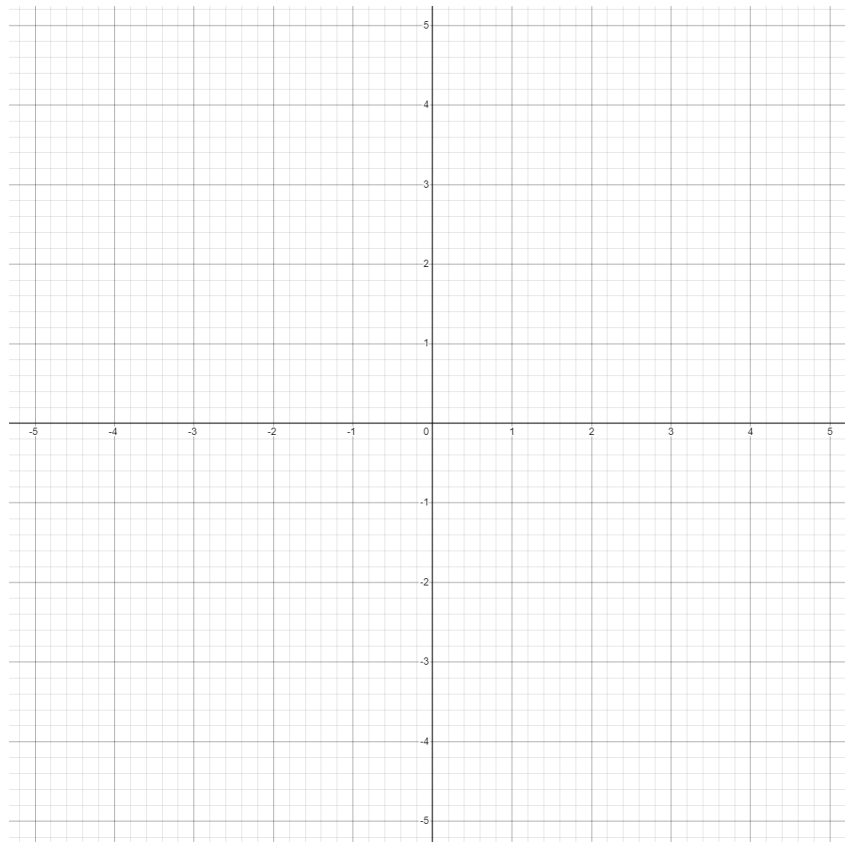
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10.  $y = 4$



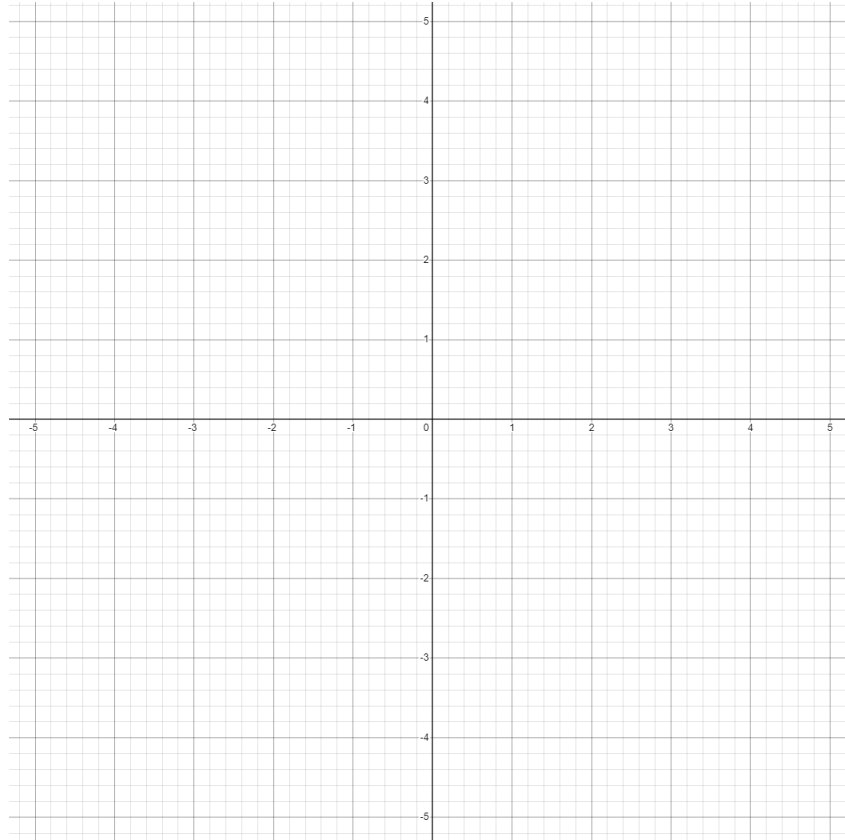
11.  $x = -4$



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12.  $y = x^2 - 3$



Factor the Following:

13.  $x^2 + x - 2$

14.  $6x^2 - 20x + 6$

15.  $2x^2 - 7x + 3$

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16.  $x^2 - 4$

17.  $x^4 + 2x^2 + 1$

Simplify the Following:

18.  $12^{-1}3^22^2$

19.  $\frac{x^2y^3z^2}{xy^4z}$

20.  $\left(\frac{10x^{-2}y^3}{z}\right)^{-1}$

21.  $16^{\frac{1}{2}}$

22.  $4^5$

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23.  $\sqrt[2]{x^{16}}$

24.  $(27x^3)^{\frac{1}{3}}$

25.  $\frac{(m^2 a^6 (m^{-1}) t^7 h^{12})}{a^5 \left(\frac{1}{t-6}\right) h^{11}}$