# Algebra 2 Bellwork Tuesday, September 8, 2015

Use a sheet of graph paper to graph each line on a separate graph.

1. $y = -3x + 1$

2. $y = 4$

3. $4x - 6y = 12$

4. $x = -3$

5. $y = \frac{1}{2}x - 3$

Write the equation for the line that passes through each pair of points.

6. $(-4,-2)$ & $(6,13)$

EQ: $y = \frac{3}{2}x + 4$

$m = \frac{13 - -2}{6 - -4} = \frac{15}{10} = \frac{3}{2}$

$y - 13 = \frac{3}{2}(x - 6) \rightarrow y = \frac{3}{2}x + 4$

7. $(5,-1)$ & $(5,8)$

EQ: $x = 5$

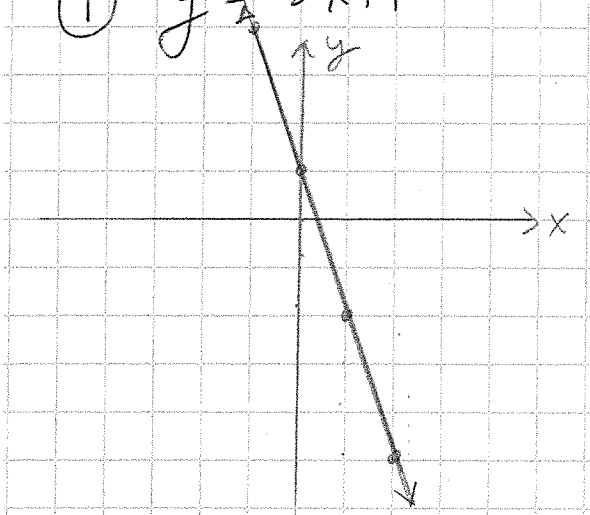
8. $(-6,-3)$ & $(1,-3)$

EQ: $y = -3$

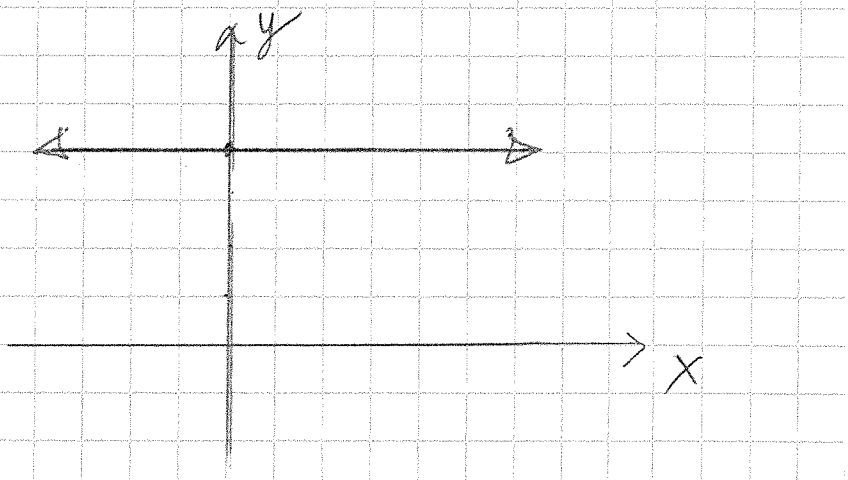
9. Factor using GCF. $24a^7b + 36a^5b^4 - 42a^3b^5 =$ $6a^3b(4a^4 + 6a^2b^3 - 7b^4)$

GCF is $6a^3b$

① $y = -3x + 1$



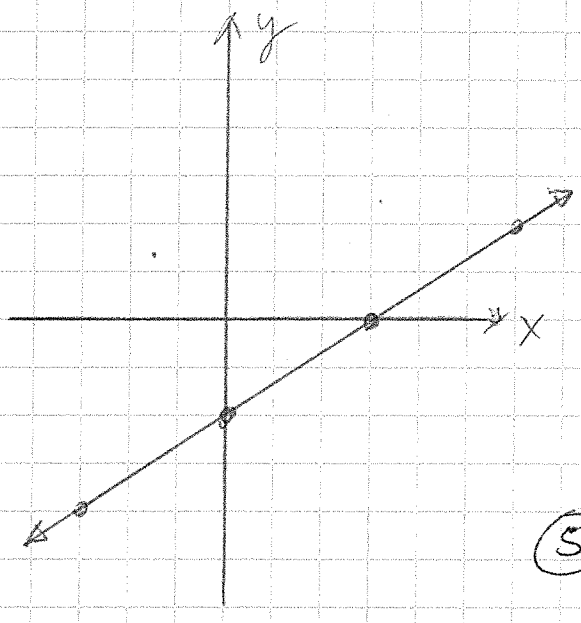

② $y = 4$



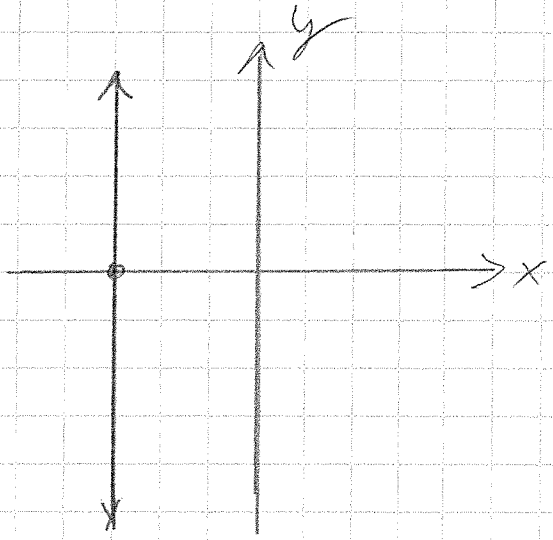

③ $4x - 6y = 12$

x-int = $12/4 = 3$

y-int = $12/-6 = -2$




④ $x = -3$




⑤