

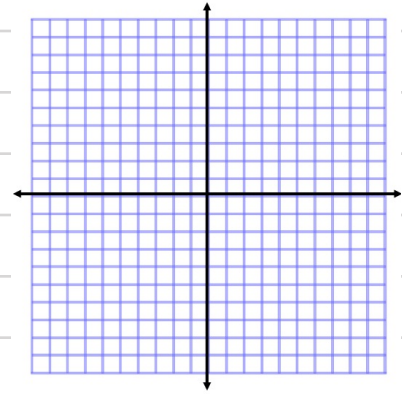
Name:  
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Date:

12/17/12 Class work

① Graph the equations

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

$$3x - 4y = 12$$



② Evaluate the following

(a)  $i^{18}$

(b)  $i^{23}$

(c)  $i^{45}$

(d)  $i^{24}$

③ What is the simplified form of  $\frac{x^2 y^{-3} z}{x^8 y^{-5} z^{12}}$

④ What is the simplified form of  $\frac{p^{-1} q r}{p^2 q^8 r^2}$

⑤ Factor completely

(a)  $8x^3 - 27y^2$

(b)  $125p^3 + 8q^3$

(c)  $x^3 - 64y^3$

(d)  $x^2 - 9y^2$