8.EE Equations of Lines

Task

The figure below shows two lines. One is described by the equation $4x - y = c$ and the other by equation $y = 2x + d$, for some constants $c$ and $d$. They intersect at the point $(p, q)$.

![Diagram of two intersecting lines]

a. How can you interpret $c$ and $d$ in terms of the graphs of the equations above?

b. Imagine you place the tip of your pencil at point $(p, q)$ and trace line $l$ out to the point with $x$-coordinate $p + 2$. Imagine I do the same on line $m$. How much greater would the $y$-coordinate of your ending point be than mine?