

Math 2143 - Brief Calculus with Applications

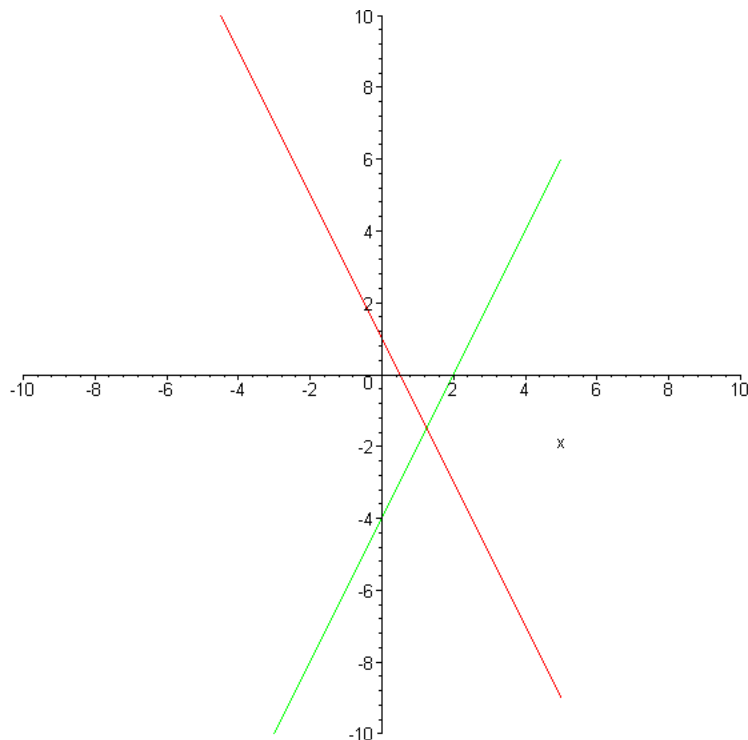
Quiz #2 - 2006.01.23

Solutions

1. Graph the following two equations on the following graph.

$$a) y = 2x - 4 \text{ (green)}$$

$$b) y = -2x + 1 \text{ (red)}$$



2. Find the equation of the line with slope 5 and y -intercept 2.

$$y = 5x + 2$$

3. Find the equation of the line with slope 3 which passes through the point $(2, 5)$.

$$y - 5 = 3(x - 2)$$

4. Find the equation of the line which passes through the two points $(3, -2)$ and $(2, 5)$.

The slope m is defined to be

$$m = \frac{5 - (-2)}{2 - 3} = -7$$

Using the point $(3, -2)$, one has

$$y + 2 = -7(x - 3)$$