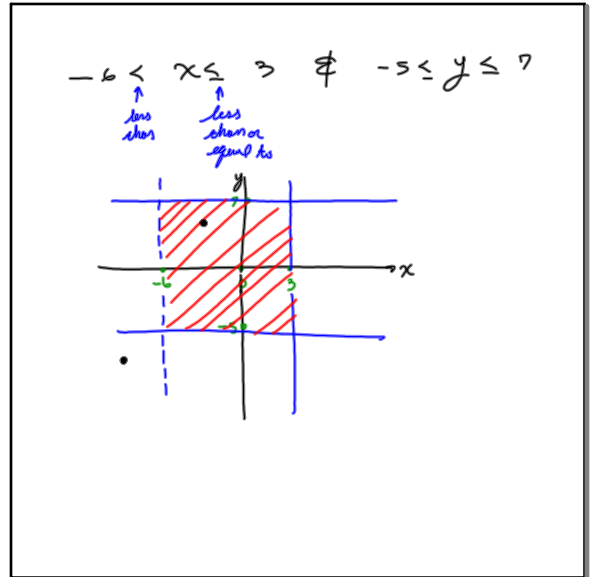
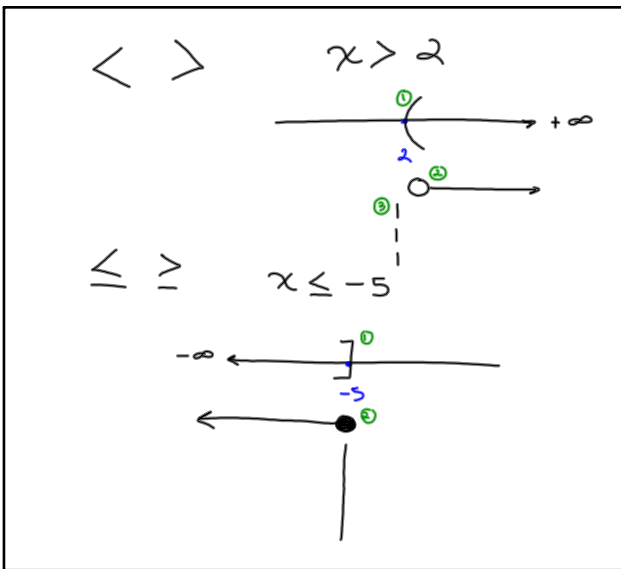


September 7, 2016

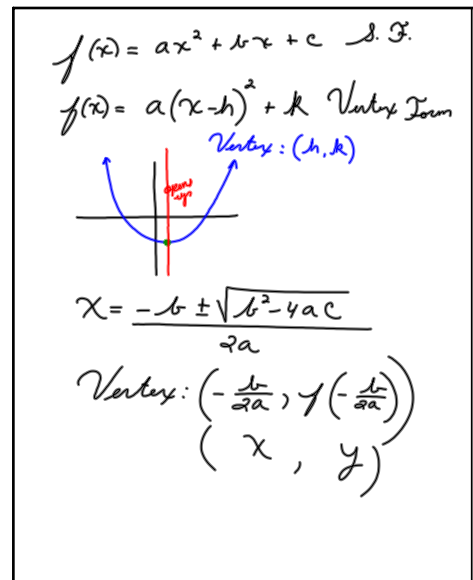
Sep 7-11:03 AM



Sep 7-11:05 AM



Sep 7-11:09 AM



Sep 7-11:16 AM

$$\begin{aligned}
 a x^2 + b x + c &= 0 \\
 x &= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad \text{to find the solutions} \\
 &= \frac{-(-7) \pm \sqrt{(-7)^2 - 4(1)(3)}}{2(1)} \\
 &= \frac{7 \pm \sqrt{49 - 12}}{2} \\
 &= \frac{7 \pm \sqrt{37}}{2} \\
 \textcircled{1} \quad x &= \frac{7 + \sqrt{37}}{2} \\
 \textcircled{2} \quad x &= \frac{7 - \sqrt{37}}{2}
 \end{aligned}$$

Sep 7-11:22 AM

$$\begin{aligned}
 f(x) &= x^2 - 7x + 3 = 0 \\
 \text{Vertex: } &\left(-\frac{b}{2a}, f\left(-\frac{b}{2a}\right)\right) = \left(\frac{7}{2}, -\frac{37}{4}\right) \\
 -\frac{b}{2a} &= -\frac{-7}{2(1)} = \frac{7}{2} \\
 f\left(\frac{7}{2}\right) &= \left(\frac{7}{2}\right)^2 - 7\left(\frac{7}{2}\right) + 3 \\
 &= \frac{49}{4} - \frac{49}{2} + \frac{3}{1} \\
 &= \frac{49 - 98 + 12}{4} \\
 &= -\frac{37}{4}
 \end{aligned}$$

Sep 7-11:33 AM

$$\begin{array}{rcl}
 -2^2 & \neq & (-2)^2 \\
 (-1) \cdot 2 \cdot 2 & & (-2) \cdot (-2) \\
 (-2) \cdot 2 & & 4 \\
 -4 & \neq & 4
 \end{array}$$

Sep 7-11:30 AM

$$\begin{array}{l}
 \frac{4}{\frac{3}{4} - \frac{3}{2}} = \frac{\frac{4}{1}}{\frac{3-6}{4}} = \frac{\frac{4}{1} \cancel{K}}{-\frac{3}{4} \cancel{K}} \\
 \frac{4}{\frac{3}{4} - \frac{3}{2}} = \frac{4}{-\frac{3}{4}} = \frac{4}{1} \cdot \frac{4}{3} \\
 -\frac{3}{2} \cdot \frac{4}{2} = \frac{-6}{4} \\
 = -\frac{16}{3}
 \end{array}$$

Sep 7-11:41 AM