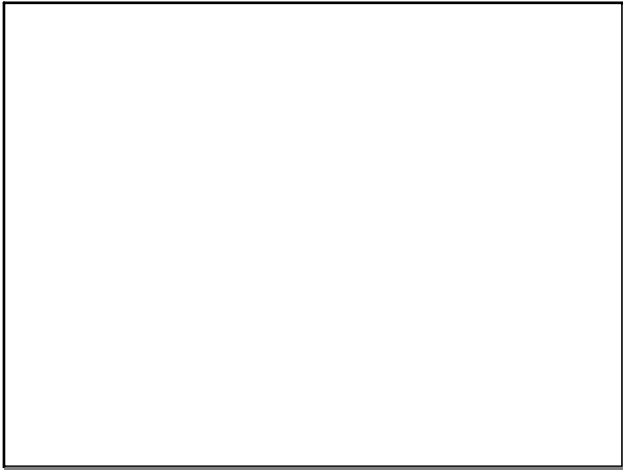


October 21, 2015
 $f(x) = 3x^2 - 18x + 5$
 My Way
 $y = 3x^2 - 18x + 5$
 $3x^2 - 18x + 5 = 0$
 $3(x^2 - 6x + \frac{5}{3}) = 0$
 $3[(x^2 - 6x = -\frac{5}{3})]$
 ① $-6 \cdot \frac{1}{2} = -3$
 ② $(-3)^2 = 9$ add to both sides
 $3[(x^2 - 6x + 9 = -\frac{5}{3} + 9)]$
 $3[(x-3)^2 = \frac{-5+27}{3}]$
 $3[(x-3)^2 = \frac{22}{3}]$
 $3[(x-3)^2 - \frac{22}{3} = 0]$ ~~$\frac{22}{3} - 22$~~
 $3(x-3)^2 - 22 = 0$
 $f(x) = 3(x-3)^2 - 22$
 $\mathcal{V} \cdot (-3, -22)$

Oct 21-11:01 AM

Kolone Way
 $f(x) = 3x^2 - 18x + 5$
 $3[x^2 - 6x] + 5$
 $3[x^2 - 6x + 0] + 5$
 ① $-6 \cdot \frac{1}{2} = -3$
 ② $(-3)^2 = 9$
 $3[x^2 - 6x + 9 - 9] + 5$
 $3[x^2 - 6x + 9] - 9 + 5$
 $3[(x-3)^2 - 9] + 5$
 $3(x-3)^2 - 27 + 5$
 $f(x) = 3(x-3)^2 - 22$

Oct 21-11:14 AM



Oct 21-11:20 AM