Quiz 3.28.14 B

Marvelous Mathematician _____

Period _____

1) **Simplify** $(4 - 9)^2 + 9 \div 3 \cdot 2 - 5 \cdot 3$
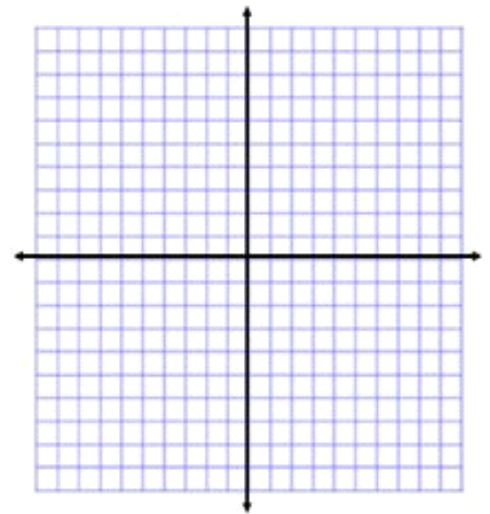
2) **Solve** $2(2x - 9) = -4(x - 3)$

3) **Graph the system of linear inequalities**

$y \geq \dfrac{2}{3}x - 1$

$y > -3x + 2$

4) **Solve the quadratic by factoring or the quadratic formula**

$y = 2x^2 + 14x + 24$

5) **Systems word problem**: Jaqui downloaded 9 items from iTunes and spent $41. Each single song costs $1 and an album costs $9. How many singles did she download? How many albums did she download?

6) Simplify the radical $\sqrt{48}$