

## 2/11/13 Radical Expressions Again! Yayay!

Goal: Try and write things as perfect square, then simplify.

Ex ①  $\sqrt{x^2} = \boxed{x}$     ②  $\sqrt{4a^2} = \sqrt{2^2 a^2} = \boxed{2a}$     ③  $\sqrt{(-3b)^2} = \boxed{-3b}$

④  $\sqrt{9a^2 - 12a + 4}$

⑤  $\sqrt{x^2 + 2x + 1}$

~~$\frac{-b}{9a}$      $\frac{-6}{9a} \div 3$      $\frac{-2}{3a}$~~

$\sqrt{(3a-2)(3a-2)}$

$\sqrt{(3a-2)^2} = \boxed{3a-2}$

⑥  $\sqrt{y^2} = 7$     \* plug in and check \*

$\boxed{7, -7}$

⑦  $\sqrt{\frac{144x^8}{36y^6}} = \boxed{\frac{12x^4}{6y^3}}$