## 3 - 9 Squares and Square Roots

$$\sqrt{a^2} = \sqrt{b}$$

$$a = \sqrt{b}$$

$$\sqrt{400}$$
 2nd  $\chi^2$  400  $6\chi^2$  36

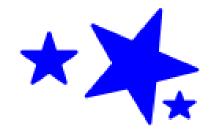




## perfect squares: an integer times itself

7 is not a perfect square

Ex: 
$$5^2 = 25$$

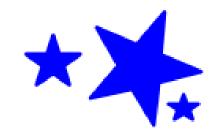


Ex: 
$$(-3)^2 = 9$$

$$-3^{2} + 9$$
 $(-3)^{2} = 9$ 

Ex: 
$$(\frac{1}{9})^2 = \frac{1}{8}$$

Ex: 
$$(.25)^2 = .0625$$



Ex: 
$$-\sqrt{99}$$
  $\approx$  -9.95

Ex: 
$$\sqrt{\frac{9}{16}} = \frac{3}{4}$$



## Homework:

p. 144 #18 - 48 even