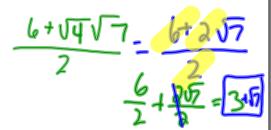
9-8 Warm-Up

Simplify.

2.
$$\sqrt{11x} \cdot \sqrt{11y}$$





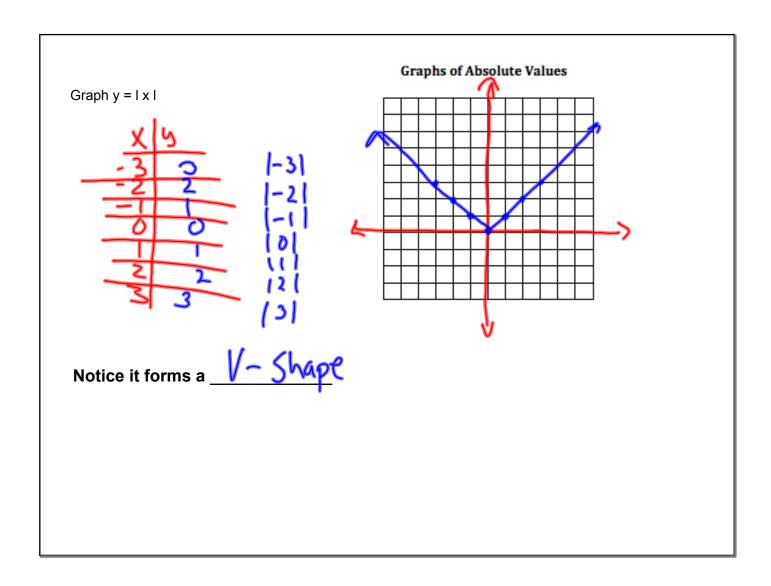
Absolute value is the distance from the origin. The origin is zero.

IT IS always positive!!

Distance = | X2 - X1 |



$$\underbrace{\text{Ex}}_{X_1} X_2 = 5$$



Examples

Simplify numbers 1-4.

1. |6|



2. |-6|



$$4 \left| \frac{-1}{4} \right| = \frac{1}{4}$$

Evaluate 5 & 6.











* When solving equations with absolute value, with equations. Set one equal to the positive and the other equal to the negative

7. |x| = 18

8. |d| =

9. |y + 4| = 16

10. |y - 7| = 3

11. What is the distance between -15 and -25?

| X2-X1

12. What is the distance between 3 and 14?

13. What is the distance between x and 8?

14. What is the distance between – x and -10?

9-8 #'s 2-8, 11-29, 31-34