Algebra 1
Our Goal: To learn to square a binomial
Warm Up: Writing absolute value equations
Today's homework
7.3 Exercises, p.375-376: 4-36 (evens)

Previous homework
7.2 Exercises, p.369-370: 4-44 (evens)


Write an absolute value equation that has the given solutions.

1. $x=9$ and $x=17$
2. $x=3$ and $x=8$
3. $x=5$ and $x=16$.
4. $x=-3$ and $x=10$

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5. $x=-5$ and $x=3$
6. $x=-2$ and $x=1$

$$
\begin{aligned}
& |x-10.5|=5.5 \\
& x-10.5=5.5 \text { or } x-10.5=-5.5
\end{aligned}
$$



Find each product.
a. $(3 x+4)^{2}$
b. $(5 x-2 y)^{2}$


Find the product.

1. $(x+7)^{2}$
2. $(7 x-3)^{2}$
3. $(4 x-y)^{2}$
4. $(3 m+n)^{2}$
(5) Core Concept

Sum and Difference Pattern
Algebra
Example
$(a+b)(a-b)=a^{2}-b^{2}$
$(x+3)(x-3)=x^{2}-9$


Find each product.
a. $(t+5)(t-5)$
b. $(3 x+y)(3 x-y)$


$$
t^{2}-25
$$






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