

6.8 Factoring Difference of Squares

$$x^2 - 64$$

$$(x + 8)(x - 8)$$

$$9y^2 - 25t^2$$

$$(3y + 5t)(3y - 5t)$$

Steps

1. Take the square root of term #1 and write your answer as the first term of each binomial.
2. Take the square root of term #2 and write your answer as the second term of each binomial.
3. make one binomial a sum and one a difference.

Apr 25-10:38 AM

$$72x^2 - 50$$

$$2(36x^2 - 25)$$

$$2(6x + 5)(6x - 5)$$

Apr 25-10:40 AM

$$16a^4 - 1$$

$$\left(4a^2 + 1\right) \left(4a^2 - 1\right) \left\{ \begin{array}{l} \text{a difference} \\ \text{of squares} \end{array} \right.$$

$$\left(4a^2 + 1\right) (2a + 1) (2a - 1)$$

$$a^4 - 16$$

$$\left(a^2 - 4\right) (a^2 + 4)$$

$$(a - 2)(a + 2)(a^2 + 4)$$

Apr 25-10:41 AM

$$(a + 7)^2 - b^2$$

$$\left((a + 7) + b\right) \left((a + 7) - b\right)$$

$$(a + b + 7)(a - b + 7)$$

$$x^2 - (3x - 2)^2$$

$$\left(x + (3x - 2)\right) \left(x - (3x - 2)\right)$$

$$(4x - 2)(-2x + 2)$$

Apr 25-10:41 AM

Assignment:

Pg. 377

3, 4, 5 and 7 odds

14 all parts

Apr 25-10:42 AM