

Factor completely:

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1)
$$x^2 - 16x + 63$$

 $-9x - 7x$



(6)
$$7k^2+9k$$

 $k(7k+9)$

D.O.T.S (Difference of 2 Squares)

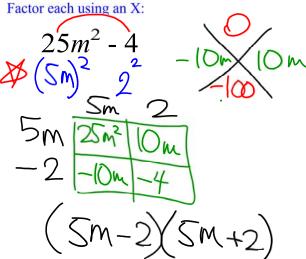
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Can be written in the form $a^2 - b^2$

- (1) A Binomial (Two Terms)
- (2) Separated by a Subtraction symbol
- (3) Both perfect squares



Is the following Differences of Two Squares?



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Difference of Two squares can be factored using a formula.

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

Factor the following: (HINT: BE SURE it's the DIFFERENCE of 2 PERFECT SQUARES!)

1)
$$w^2 - 25$$
 $(W+5)(W-5)$

$$(x^{4}+10)(x^{4}-10)$$

p. 51

Difference of Two squares can be factored using a formula.

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

Factor the following: (HINT: BE SURE it's the DIFFERENCE of 2 PERFECT SQUARES!)

3)
$$16x^2 + 4$$
 $4(4x^2 + 1)$

$$(7x^{2}+3)(7x^{2}-3)$$

Work problem out then you can get the homework:

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$$36k^2 - 1$$