p. 50-51 Factor
Factor completely:
1)


p. 50


D.O.T.S. (Difference of 2 Squares) $\square$
p. 51

Can be written in the form $\mathbf{a}^{2}-\mathbf{b}^{2}$
(1) A Binomial (Two Terms)
(2) Separated by a Subtraction symbol
(3) Both perfect squares


Is the following Differences of Two Squares?
Factor each using an X :


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!)

2) $x^{8}-100$

$$
\left(x^{4}+10\right)\left(x^{4}-10\right)
$$

## 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) $16 x^{2}+4$

4) $49 x^{4}-9$
$\left(7 x^{2}+3\right)\left(7 x^{2}-3\right)$

Work problem out then you can get the homework:

$$
36 k^{2}-1
$$

