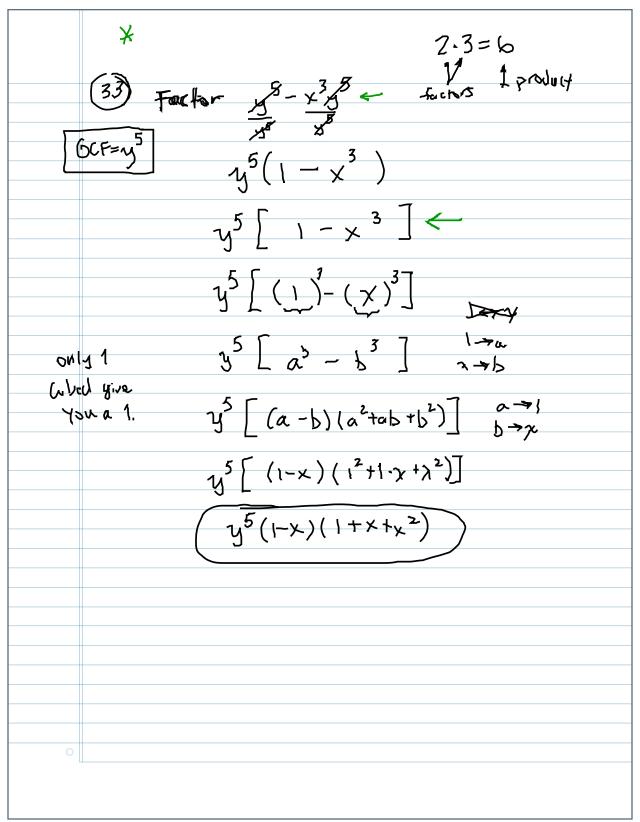
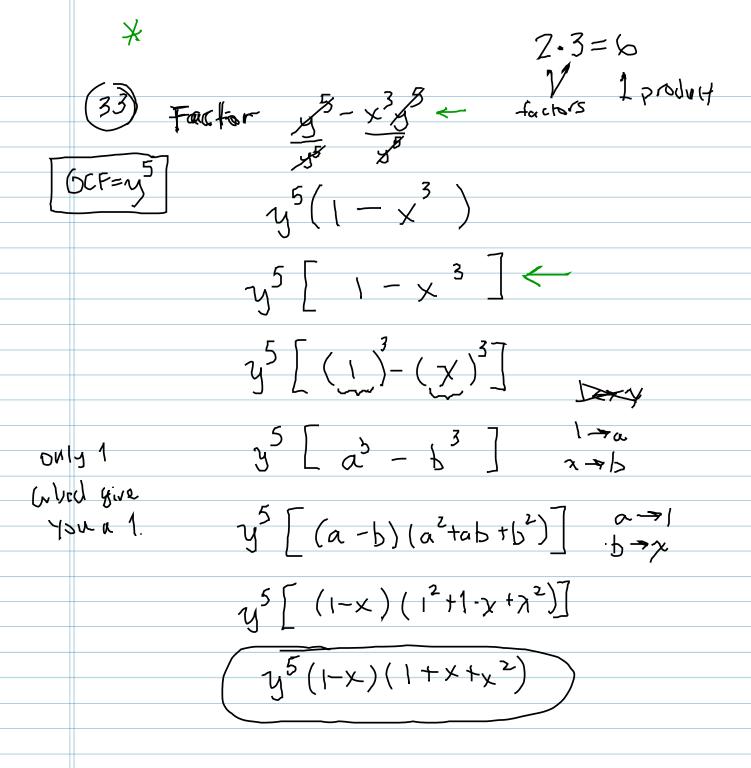
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\$5.7 Factoring by Special Products

(P. 68)

5.7.35 Factor 
$$27 < d^3 + 8c^4$$

21 $< d^3 = 3.3.3.4$  coldidated

8 $< c^4 = 2.2.2.2.4$  coldidated

C (27 $< d^3 + 8c^4$ )

C (3 $< d^3 + 8c^3$ )

C [3 $< d^3 + 8c^3$ ]

(P.69)

$$(1) \quad \chi(5x+7) = 6$$

$$\lambda = 6$$

$$5x+7 = 6$$

$$\chi(5\lambda+\gamma)=6$$

$$5\chi^2 + 7\chi = 6$$

$$poly = poly$$

$$5x^2 + 1x - 6 = 0$$

$$5x-3=0 \qquad x+2=0$$

$$5x=3$$
  $\lambda=-2$ 

$$\chi = \frac{3}{5}$$
  $\left\{ -2, \frac{3}{5} \right\}$ 

$$\frac{2^{2}}{6} - \frac{77}{2} - |2 = 0$$

$$\frac{2^{2}-77}{6(6-2^{2}-12)}=6(0)$$

$$\frac{6}{5} \frac{2^{2}}{7^{2}} = \frac{3}{5} \frac{72}{72} - 6.12 = 0$$

$$\frac{2^{2}}{7^{2}} - 212 - 72 = 0$$

$$(2+3)(2-24)=0$$
 $\begin{array}{c} -242 \\ +32 \\ \hline -212 \end{array}$ 

Rational Functions and Multiplying and Dividing Rational Expressions (15.9) Final answer in Set-Duilder Damain of x+3 (x+x)(x-x) { x | x is real, x+2, x+-2} Simplify NUMER DEIWM -X+4 GCF=-1 factores fa/m poly nomal FOIM

$$\frac{\chi^{3}-216}{3\chi-18} = \frac{(\chi-4)(\chi^{2}+6\chi+36)}{(\chi-4)(3)}$$
NUMER DENOM

 $\frac{3^{2}-216}{(x)^{3}-(6)^{3}} = \frac{3^{2}-18}{3} = \frac{3(x-6)}{3(x-6)}$ 

 $(a-b)(a^2+ab+b^2)$   $(x-b)(x^2+x\cdot 6+6^2)$  $(x-6)(x^2+6x+36)$ 

$$\frac{41}{5a^{3}+a^{2}b+a+b} = \frac{18a^{2}}{9a^{2}-9b^{2}}$$

$$\frac{a^{3}+a^{2}b^{4}+a+b}{5a^{3}+5a} = \frac{18a^{2}}{9a^{2}-9b^{2}}$$

$$\frac{a^{2}(a+b)+1(a+b)}{(a^{2}+1)(a+b)} = \frac{9a^{2}-9b^{2}}{9}$$

$$\frac{a^{2}(a+b)+1(a+b)}{(a^{2}+1)(a+b)} = \frac{9a^{2}-9b^{2}}{9}$$

$$\frac{5a^{3}+5a}{9} = \frac{9a^{2}-9b^$$