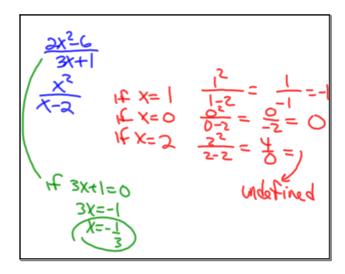
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$$a^{2}$$
-10a+1b  
when is this expression undefined?  
 $a^{2}$ -10a+1b=0  
 $(a-8)(a-2)=0$   
 $a-8=0$  or  $a-2=0$   
 $a=8$   $a=2$ 

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$$\frac{2a^{3}}{5b^{4}} \cdot \frac{4a^{6}}{7b} = \frac{8 \cdot (x^{3+6})^{3+6}}{35 \cdot b^{3+1}} = \frac{8 \cdot a^{9}}{35 \cdot b^{5}}$$

$$-\frac{X+1}{X+5} \cdot \frac{2X-3}{3X+1} = -\frac{2X^{2}-3X+2X-3}{3X^{2}+X+15X+6}$$

$$= -\frac{2X^{2}-X-3}{3X^{2}+16X+6}$$

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12)  $\frac{7\chi^{2}}{3y^{4}} - \frac{4\chi^{5}}{5y^{2}} = -\frac{28\chi^{7}}{15y^{6}}$ 24)  $(m-5)\frac{2m+1}{m-6} = \frac{(m-5)}{6} \cdot \frac{(2m+1)}{m-6}$  $=\frac{2m^{2}+m-10m-5}{m-6} = \frac{2m^{2}-9m-5}{m-6}$ 

 $\frac{\binom{207}{4} \cdot 2_{1} \cdot 2_{2} \cdot 2_{4}}{2) \cdot \frac{6}{2x+10}} \quad 2x+10=0 \quad 2x=-\frac{1}{2} \quad x=-\frac{6}{2}$ 

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8.2 Simplest Form
$$\frac{6}{8} = \frac{2.3}{2.4} = \frac{2}{2} \cdot \frac{3}{4} = 1 \cdot \frac{3}{4} = \frac{3}{4}$$

$$\frac{6}{8} = \frac{2.3}{2.4} = \frac{2}{2} \cdot \frac{3}{4} = 1 \cdot \frac{3}{4} = \frac{3}{4}$$

$$\frac{12m}{18m} = \frac{3}{3} \cdot \frac{3}{1} = \frac{2}{3}$$

$$\frac{12m}{18m} = \frac{2}{3} \cdot \frac{m}{1} = \frac{3}{3}$$

$$\frac{12m}{18m} = \frac{2}{3} \cdot \frac{m}{1} = \frac{3}{3}$$

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$$\frac{X^{2}-9x+20}{2X^{2}-13x+15} = \frac{(x-5)(x-4)}{(2x-3)(x-5)}$$

$$= \frac{(x-5)(x-4)}{(x-5)(2x-3)} = \frac{x-4}{2x-3}$$

$$x-5 = 0$$

$$x = 0$$

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$$\frac{a-b}{3a-18} = \frac{(a-6)}{3(a-6)} = \frac{1}{3} \cdot \frac{(a-6)}{(a-6)}$$

$$= \frac{1}{3} \cdot \frac{(a-6)}{(a-6)}$$

$$=$$

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$$\frac{a^{2}-7\alpha+12}{2a^{2}-9a+9} = \frac{(a-4)(a-3)}{(2a-3)(a-3)}$$

$$= \frac{a-4}{2a-3}$$

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8.3 The -1 Technique
$$\frac{(x-5)}{25-x^2} = \frac{(x-5)}{(5+x)(5-x)}$$

$$\frac{5^2-x^2}{(a-b)=-(b-4)}$$

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$$\frac{(X-5)}{(5+X)(5-X)} = \frac{(X-5)}{(5+X)(-(X-5))}$$

$$= -\frac{X-5}{(5+X)(X-5)}$$

$$= -\frac{1}{(5+X)}$$

$$= -\frac{1}{(5+X)}$$

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$$\frac{(2+x)(2-x)}{(x-2)(x+3)} = -\frac{(2+x)}{(x+3)}$$

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8.4 Quotient of Powers
$$\frac{\chi^3}{\chi^2} = \frac{\chi \chi \chi}{\chi^2} = \frac{\chi}{1} = \chi$$

$$\frac{\chi^{m}}{\chi^{n}} = \chi^{m-n}$$

$$\frac{\chi^{2\delta}}{\chi^{r\delta}} = \chi^{2\delta-1\delta} = \chi^{1\delta}$$

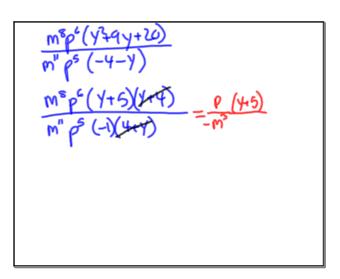
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$$\frac{10 \times 3^{3}}{20 \times 9^{10}} \rightarrow \frac{9 \times^{3}}{10 \times 9^{10}}$$

$$\frac{9 \times^{2}}{10 \times 9^{10}} \rightarrow \frac{9 \times^{3}}{10 \times 9^{10}}$$

$$\frac{9 \times^{2}}{10 \times 9^{10}} \rightarrow \frac{2 \times 2}{10 \times 9^{10}}$$

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(X-4) · 6x-12

 $\frac{(x-y)}{1}$ .  $\frac{f(x-z)}{f(x^2-6x+4)}$ 

8.5 Simplifying Products

$$\frac{y^{2}-4y+3}{4y+16} \cdot \frac{2y+8}{y-3} = 4$$

$$\frac{(y-3)(y-1)}{4(y+4)} \cdot \frac{2(4+4)}{y-3}$$

$$\frac{2(4+4)}{4(y+4)} = \frac{4-1}{3}$$

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$$\frac{m^{2}-7m+10}{5m^{2}p^{3}} \cdot \frac{20m^{4}p^{2}}{12-6m}$$

$$\frac{(m-2)(m-5)}{5m^{2}p^{3}} \cdot \frac{20m^{4}p^{2}}{6(2-m)}$$

$$\frac{(m-2)(m-5)(4)(5)m^{4}p^{2}}{(2-m)}$$

$$\frac{(2-m)}{(2-m)}$$

$$\frac{(2-m)}{(2-m)}$$

$$\frac{(3-7)(m-5)(4)(5)m^{4}p^{2}}{(2-m)}$$

$$\frac{(3-7)(m-5)(4)(5)m^{4}p^{2}}{(2-m)}$$

$$\frac{(3-7)(m-5)(4)(5)m^{4}p^{2}}{(2-m)}$$

$$\frac{(3-7)(m-5)(4)(5)m^{4}p^{2}}{(2-m)}$$

$$\frac{(3-7)(m-5)(4)(5)m^{4}p^{2}}{(2-m)}$$

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8.6 Multiplying and Dividing
$$\frac{(\chi-b)}{(\chi+3)} \cdot \frac{4}{(\chi+1)} = \frac{4\chi - 24}{\chi^2 + \chi - 3\chi + 3}$$

$$= \frac{4\chi - 24}{\chi^2 + 4\chi + 3}$$

$$\frac{(\chi-b)}{(\chi+3)} \cdot \frac{4}{\chi+1}$$

$$\frac{(\chi-b)}{(\chi+3)} \cdot \frac{4\chi}{\chi+1}$$

$$\frac{(\chi-b)}{(\chi+3)} \cdot \frac{4\chi}{\chi+1}$$

$$\frac{(\chi-b)}{(\chi+1)} \cdot \frac{4\chi}{\chi+1}$$

$$\frac{(\chi-b)}{(\chi+3)} \cdot \frac{4\chi}{\chi+1}$$

$$\frac{(\chi-b)}{(\chi+1)} \cdot \frac{4\chi}{\chi+1}$$

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$$2\left(\frac{a}{3}\right)=\left(\frac{3}{5}\right)^{2}$$

$$a = \frac{3\cdot 2}{5}$$

$$a = \frac{6}{5}$$

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 $\frac{2}{5} = \frac{X}{4}$  2.4 = 5.X  $x = \frac{8}{5}$ 

$$\frac{Q - \frac{3}{5}}{2 \cdot \frac{3}{5}} = \frac{39}{10}$$

$$0.5 = 2.3$$

$$0 - \frac{6}{5}$$

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4

$$\frac{\sqrt{-4}}{1} = \frac{2}{\sqrt{-3}} \quad \frac{5-4}{1} = \frac{2}{5-3} \quad \frac{24}{1} = \frac{2}{25}$$

$$\frac{1}{1} = \frac{2}{2} \quad \frac{2}{1} = \frac{2}{25}$$

$$\frac{1}{1} = \frac{2}{2} \quad \frac{2}{1} = \frac{2}{25}$$

$$\frac{1}{1} = \frac{2}{25} \quad \frac{2}{1} = \frac{2}{1} = \frac{2}{1}$$

$$\frac{2}{1} = \frac{2}{1} = \frac$$

Homework: p230 3,7,9,15,17,19,21

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