Subtract

$$\frac{y+1}{y^2-6y+8} - \frac{3}{y^2-16}$$

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

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

$$\frac{y^2+5y+4-3y+6}{(y-2)(y+4)(y-4)}$$

$$\frac{y^2+2y+10}{(y-2)(y+4)(y-4)}$$

Complex Fractions

$$\frac{\frac{x^2+5x+6}{x+1}}{\frac{x^2-4}{x-5}}$$

$$\frac{x^2+5x+6}{x+1} \div \frac{x^2-4}{x-5}$$

$$\frac{x^2+5x+6}{x+1} \cdot \frac{x-5}{x^2-4}$$

$$\frac{(x+2)(x+3)}{x+1} \cdot \frac{x-5}{(x+2)(x-2)}$$

$$\frac{(x+3)(x-5)}{(x+1)(x-2)}$$

$$\frac{1+\frac{3}{x^2}}{\frac{1}{x}+\frac{3}{x^2}}$$

$$\frac{\left(1+\frac{3}{x^2}\right)}{\left(\frac{1}{x}+\frac{3}{x^2}\right)} \cdot \frac{x^2}{x^2}$$

$$\frac{x^2+3}{x+3}$$

$$\frac{\frac{1}{x}+\frac{2}{x^2}}{1-\frac{3}{x}-\frac{10}{x^2}}$$

$$\frac{\frac{1}{x}+\frac{2}{x^2}}{1-\frac{3}{x}-\frac{10}{x^2}} \cdot \frac{x^2}{x^2}$$

$$\frac{x+2}{x^2-3x-10}$$

$$\frac{x+2}{(x-5)(x+2)}$$

$$\frac{1}{x-5}$$

$$\frac{\frac{x^2-9}{x+5}}{\frac{x+3}{x^2+4x-5}}$$

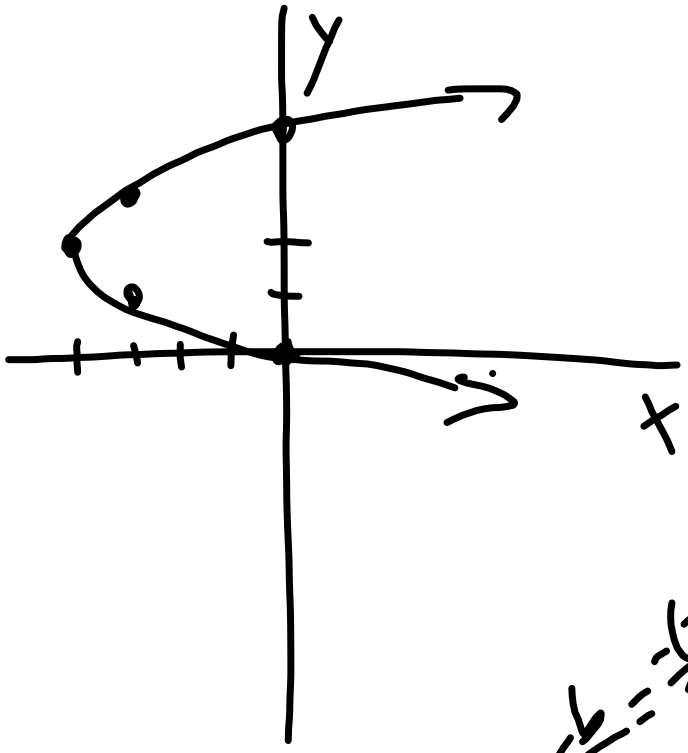
$$\frac{x^2-9}{x+5} \div \frac{x+3}{x^2+4x-5}$$

$$\frac{(x+3)(x-3)}{x+5} \cdot \frac{(x+5)(x-1)}{x+3}$$

$$(x-3)(x-1)$$

$x = y^2 - 4y$

x	y
0	0
-3	1
-4	2
-3	3



$y = \frac{-b}{2a} = \frac{-(-4)}{2} = 2$

$$\frac{\frac{x^2-9}{x+5}}{\frac{x+3}{x^2+4x-5}} = \frac{\frac{(x+3)(x-3)}{x+5}}{\frac{x+3}{(x+5)(x-1)}} \cdot \frac{\frac{(x-1)}{1}}{\frac{(x-1)}{1}}$$

$$\frac{\frac{(x+3)(x-3)(x-1)}{x+5}}{\frac{x+3}{x+5}} \cdot \frac{\frac{x+5}{1}}{\frac{x+5}{1}}$$

$$\frac{(x+3)(x-3)(x-1)}{x+5}$$