

Jan 5th worksheet on Adding/Subtracting

1. $\frac{8x}{x-1}$, $x \neq 1$

2. $\frac{2(x-3)}{x(x+6)}$, $x \neq 0, -6$

3. $\frac{y^2+10y-36}{2(y-6)(y+6)}$, $y \neq \pm 6$

4. $\frac{78x-129}{10(x-3)(2x-3)}$ or $\frac{3(26x-43)}{10(x-3)(2x-3)}$, $x \neq 3, \frac{3}{2}$

5. $\frac{3(a-1)}{(2a-1)}$, $a \neq \pm \frac{1}{2}$

6. $\frac{2}{b}$, $b \neq 0, 1$

7. $\frac{4u^2-11u}{(u+4)(u-5)}$, $u \neq -4, 5$

8. $\frac{a^2+b^2}{(a-b)(a+b)}$, $a \neq \pm b$

$$1. \frac{x+7}{2x+14} - \frac{5x}{-3x-21}$$

$$\frac{x+7}{2(x+7)} - \frac{5x}{-3(x+7)}$$

$$\text{C.D.: } -6(x+7)$$

$$\frac{-3(x+7)}{-6(x+7)} - \frac{5x(2)}{6(x+7)}$$

$$\frac{3x+21 + 10x}{6(x+7)} = \frac{13x+21}{6(x+7)} \quad x \neq -7$$