## Algebra I 3-5 Solving Proportions

## Proporition - Equal ratios.



Solve.
2) $\frac{6-\frac{3}{x} \frac{3}{x^{-2}}}{}$ flip!
(Flip the fraction)
(swap means)
$6\left(\frac{x}{6}\right)=\left(\frac{x-2}{3}\right) 6$

multiply by the common denominator. $\frac{8 x}{8}=\frac{12}{8}$ $x=\frac{3}{2}$ ${ }^{\{ }\{3$ $\frac{21}{7}=\frac{8 x}{4}$ reduce both sides. | $\frac{3}{2}=2 \frac{2 x}{2}$ |
| :---: |
| 3 |
| $\frac{2}{2}$ | $x=2(x-2)$

$x=2 x-4$
$-2 x-2 x$ $x=4$ $\{4\}$


Assignment:
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1, 4-14 even,
15-18,
19-29 odd,
32-43 all

