

February 10, 2016  
 \* Fraction Assignment due Friday.

Feb 10-10:17 AM

$$\begin{aligned}
 -x^4 & ; -\frac{9}{7} \\
 -\left(-\frac{9}{7}\right)^4 & = \left[(-1) \cdot \left(-\frac{9}{7}\right)\right] \left(-\frac{9}{7}\right) \left(-\frac{9}{7}\right) \left(-\frac{9}{7}\right) \\
 & = \left(\frac{9}{7}\right) \left(-\frac{9}{7}\right) \\
 & = \left(-\frac{81}{49}\right) \left(-\frac{9}{7}\right) \\
 & = \left(\frac{729}{343}\right) \left(-\frac{9}{7}\right) \\
 & = -\frac{6561}{2401}
 \end{aligned}$$

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Equivalent Equations

- ①  $a+c = b+c$   
 $x+2 = 6+2$   
 $x+2 = 8$
- ②  $a-c = b-c$   
 $x-2 = 6-2$   
 $x-2 = 4$
- ③  $ac = bc$   
 $2x = 6(2)$   
 $2x = 12$
- ④  $\frac{a}{c} = \frac{b}{c}$   
 $\frac{x}{2} = \frac{6}{2}$   
 $\frac{10}{1} \cdot \frac{x}{2} = \frac{3}{1} \cdot \frac{6}{1} = 6$   
 $x = 6$

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Do CORE 2.1

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2.2 Multi-Step Equations

- ①  $x$
- ② multiply by 6  $\rightarrow \cdot \frac{1}{6}$
- ③ Add 4  $\rightarrow + \cdot -4$

$$6x + 4$$

- ④  $\frac{1}{6}$   
 $\frac{1}{6} \cdot 24$

$$\begin{aligned}
 6x + 4 & = 24 \\
 \frac{6x}{6} & = \frac{20}{6} \\
 x & = \frac{10}{3}
 \end{aligned}$$

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