

12-4 to 12-7 Review

12.6-12.7 QUIZ

x · ÷
+ · -

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Multiply.

$$\frac{x}{y^2}$$

Divide.

$$\frac{(x+4)(x-4)}{x^2-16} \div \frac{(x+1)(x-1)}{x^2+4x+3}$$

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

$$\frac{x+4}{x+3}$$

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Add.

$$\frac{12}{x+3} + \frac{4x}{x+3} = \frac{4x+12}{x+3}$$

4

Subtract.

$$\frac{x-6}{x+5} - \frac{8x+7}{x+5} = \frac{-7x-13}{x+5}$$

$$-\frac{(7x+13)}{x+5}$$

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12-6

Divide.

$$\frac{(8x^3 - 4x^2 + 12x) \div (4x^2)}{4x^2 - 4x^2}$$

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

Divide by factoring.

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

x+5

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12-6

Divide using Long Division.

$$\begin{array}{r} 118\frac{4}{6} \\ 6 \overline{) 712} \\ \underline{-6} \\ 11 \\ \underline{-6} \\ 52 \\ \underline{-48} \\ 4 \end{array}$$

118²/₃

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12-6

Divide using Long Division.

$$(6x^2 + 7x - 2) \div (x + 4)$$

$$\frac{6x-17+\frac{66}{x+4}}{x+4} \overline{) 6x^2+7x-2}$$

$$\begin{array}{r} \underline{-6x^2-24x} \\ -17x-2 \\ \underline{+17x+68} \\ 66 \end{array}$$

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12-7
Solve.

$$\frac{4}{h+1} = \frac{2}{h} \cdot h(h+1)$$

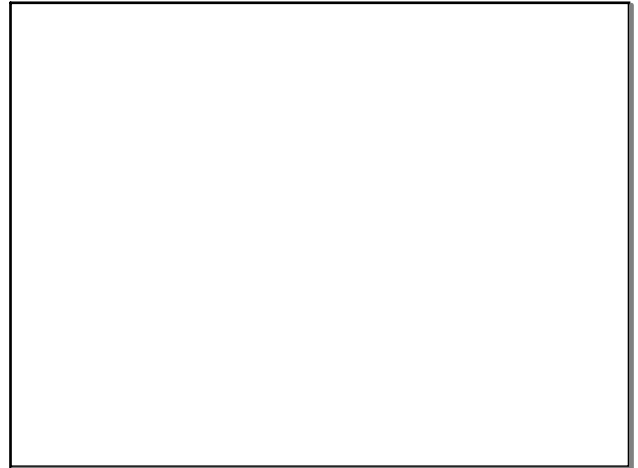
CD: $h(h+1)$
 $h \neq -1 \quad h \neq 0$

$$4h = 2(h+1) \quad 4h = 2(h+1)$$

$$4h = 2h + 2$$

$$\frac{2h}{2} = \frac{2}{2} \quad \boxed{h=1}$$

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12-7
Solve. Check your solution(s).

$$\frac{2x}{4} + \frac{1}{1} = \frac{10}{2}$$

CD: $2x$
 $x \neq 0$

$$8x + 2 = 10$$

$$\frac{8x}{8} = \frac{8}{8} \quad \boxed{x=1}$$

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12-7
Solve. Check your solution(s).

$$\frac{4x}{x-3} + \frac{12}{x-3} = \frac{12}{x-3}$$

CD: $2(x-3)$
 $x \neq 3$

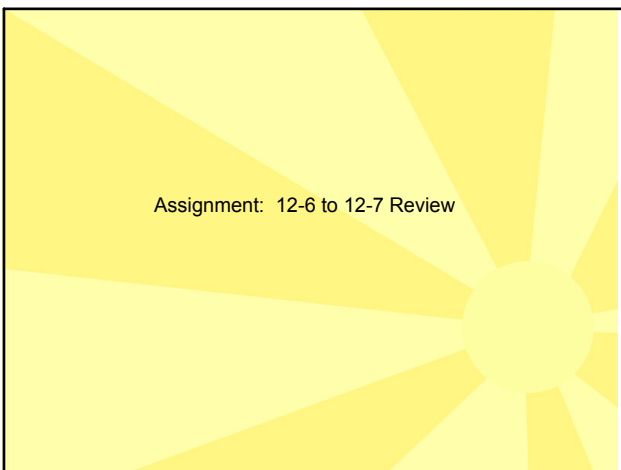
$$8x + x^2 - 3x = 24$$

$$x^2 + 5x - 24 = 0$$

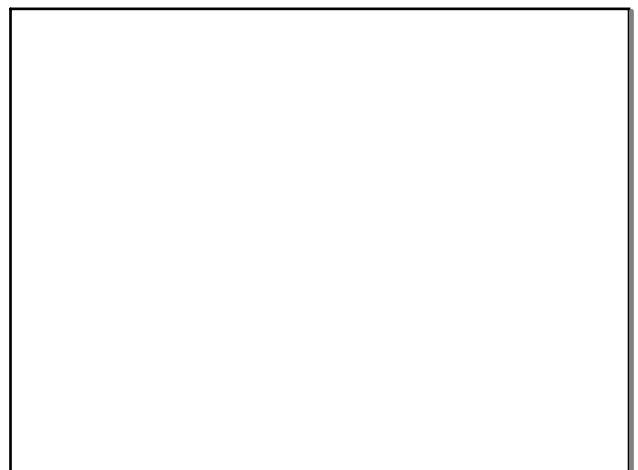
$$(x+8)(x-3) = 0$$

$\boxed{x=-8}$ ~~$x=3$~~ ext

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