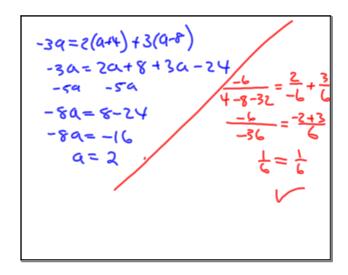
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10.1 Equations with Rational Expressions
$$\frac{ex1 \rho 264}{a^2 - 4a - 32} = \frac{2}{a - 8} + \frac{3}{a + 4}$$

$$\frac{-3a}{(a - 8)(a + 4)} = \frac{2}{a - 8} + \frac{3}{a + 4} + \frac{3}{(a + 4)(a - 8)}$$

$$\frac{-3a}{(a - 8)(a + 4)} = \frac{2}{a - 8} + \frac{3}{a + 4} + \frac{3}{a + 4$$

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$$\frac{3x}{x^{2}-5x+4} = \frac{2}{x-4} + \frac{3}{x-1}$$

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

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

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$$\frac{ex \, \partial \, \rho \otimes 265}{(K-9)(X+5)} = \frac{(X+3)}{(X+5)} + \frac{12}{(X-9)} (X+5)$$

$$\frac{-20}{(K-9)(X+5)} = \frac{(X+3)}{(X+5)} (X-9)(X+5)$$

$$\frac{-20}{(X-9)(X+5)} = \frac{(X+3)}{(X+5)} + \frac{12}{(X-9)} (X+5)$$

$$\frac{-20}{(X-9)(X+5)} = \frac{(X+3)}{(X+9)} (X-9)(X+5)$$

$$\frac{-20}{(X-9)} = \frac{(X+3)}{(X-9)} (X-9)(X+5)$$

$$\frac{-20}{(X-9)} = \frac{(X+3)}{(X-9)} (X-9)(X+5)$$

$$\frac{-20}{(X-9)} = \frac{(X+3)}{(X-9)} (X-9)(X-9)$$

$$\frac{-20}{(X-9)} = \frac{(X+3)}{(X-9)} (X-9)(X-9)$$

$$\frac{-20}{(X-9)} = \frac{(X+3)}{(X-9)} (X-9)$$

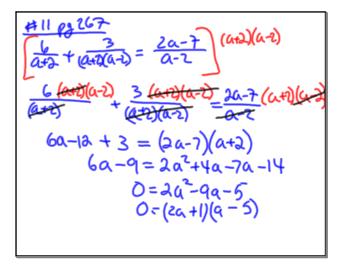
$$\frac{-20}{(X-9)} = \frac{(X+3)}{(X-9)} (X-9)$$

$$\frac{-20}{(X-9)} = \frac{(X+3)}{(X-9)} = \frac{(X+3)}{$$

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```
\frac{(x+6)}{(x+4)} = \frac{3}{x} + \frac{36}{x(x-4)}(x)
\frac{x+5}{x-4} = \frac{3}{x} + \frac{36}{x(x-4)}(x)
\frac{x+5}{x(x-4)} = \frac{3}{x} + \frac{36}{x(x-4)} = \frac{3}{x} + \frac
```

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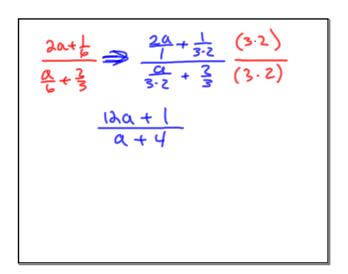
$$0 = (2\alpha + 1)(\alpha - 5)$$
 $2\alpha + 1 = 0$
 $2\alpha - 1$
 $\alpha = 5$
 $\alpha = -\frac{1}{2}$

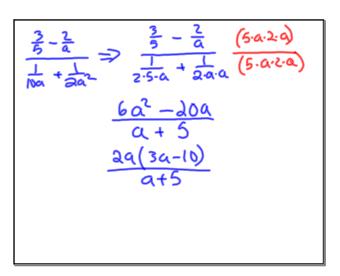
 $\frac{x + 16}{x - 4x} = \frac{24}{6 - x}$ $\frac{x - 4x}{x - 6} = \frac{24}{6 - x}$ $\frac{x}{1} - \frac{4x}{x - 6} = \frac{-24}{x - 6}$ $\frac{x}{1}$

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10.2 Work Problems

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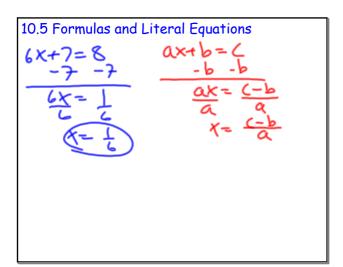
$$\frac{7}{2} - \frac{3}{b} = \frac{2 - \frac{3}{5}}{\frac{5}{b} + \frac{11}{14}} = \frac{2 - \frac{3}{5}}{\frac{5}{b \cdot b} + \frac{2}{2} \cdot 7} = \frac{2 - \frac{3}{5}}{(2 \cdot b \cdot b \cdot 7)}$$

$$\frac{49b^{2} - 42b}{70 + 11b^{2}}$$

10.4 Complex Rational Expressions with polynomial denominators

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$$P=2l+2w$$

$$-2w$$

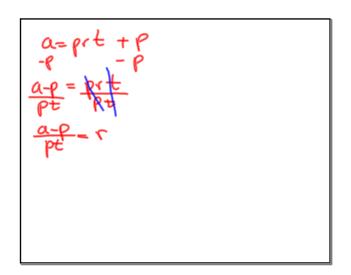
$$P-2w=2-l$$

$$2$$

$$P-2w=1$$

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$$k = \frac{7}{3}m + 20$$

$$(k-20 = \frac{7}{3}m) = \frac{3}{7}$$

$$\frac{3}{7}k - \frac{3(20)}{7} = m$$

$$\frac{3}{7}k - \frac{60}{7} = m$$

$$\frac{3(62)}{7} - \frac{60}{7} = m$$

$$\frac{126}{7} = m$$

$$\frac{126}{7} = m$$

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$$ax = m - 4x$$

$$+4x + 4x$$

$$ax + 4x = m$$

$$(a+4)x = m$$

$$(a+4) = m$$

$$(a+4) = m$$

$$x = m$$

$$x = m$$

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10.6 Distance Problems

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