## Bellwork Alg 2A Friday, September 26, 2016

1. Solve this equation. $\frac{2w}{3} - \frac{5w}{6} - \frac{2w}{9} = 10$

2. Factor. $48a^2 - 4ab - 24b^2$

3. Solve this equation for $R$. $\frac{RW}{C+G} - B = 4B$

## Bellwork Alg 2A Friday, September 26, 2016 Answers

1. Solve this equation. $\frac{2w}{3} - \frac{5w}{6} - \frac{2w}{9} = 10$

$\frac{6}{6}\cdot\frac{2w}{3} - \frac{5w}{6}\cdot\frac{3}{3} - \frac{2w}{9}\cdot\frac{2}{2} = 10$

$\frac{12w}{18} - \frac{15w}{18} - \frac{4w}{18} = 10$

$18\left(\frac{-7w}{18}\right) = (10)18$

$\frac{-7w}{-7} = \frac{180}{-7}$

$w = \frac{180}{-7}$

2. Factor. $48a^2 - 4ab - 24b^2$

$4(12a^2 - ab - 6b^2)$

$-72$, $-9$, $8$, $-1$

| | $4a$ | $-3b$ |
|---|---|---|
| $3a$ | $12a^2$ | $-9ab$ |
| $+2b$ | $+8ab$ | $-6b^2$ |

$4(4a-3b)(3a+2b)$

3. Solve this equation for $R$. $\frac{RW}{C+G} - B = 4B$

$+B \quad +B$

$C+G \cdot \frac{RW}{C+G} = 5B(C+G)$

$\frac{RW}{W} = \frac{5B(C+G)}{W}$

$R = \frac{5B(C+G)}{W}$