Bellwork Alg 2 Wednesday, August 29, 2018

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

For 2-4, solve for the indicated variable.

2. Solve for N.

$$\frac{M+PQ}{N} = \frac{R}{B}$$

3. Solve for M.

$$\frac{CM}{P-Q} - A = X$$

4. Solve for C.

$$\frac{\sqrt{C+H}-K}{E} = W$$

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ANSWERS

1. Solve this equation. $18\left(\frac{2w}{3}-\frac{5}{6}-\frac{2w}{9}\right)=10$ · 18

$12w-15-4w=180$

$8w-15=180$

$+15 \quad +15$

$\frac{8w}{8}=\frac{195}{8}$

$w=\frac{195}{8}$

For 2-4, solve for the indicated variable.

2. Solve for N.

$\frac{M+PQ}{N}=\frac{R}{B}$

cross multiply

$NR=B(M+PQ)$

$\frac{NR}{R}=\frac{B(M+PQ)}{R}$

$N=\frac{B(M+PQ)}{R}$

3. Solve for M.

$\frac{CM}{P-Q}-A=X$

$+A \quad +A$

$\left(\frac{CM}{P-Q}\right)\cdot(P-Q)=(X+A)\cdot(P-Q)$

$CM=(X+A)(P-Q)$

$\frac{CM}{C}=\frac{(X+A)(P-Q)}{C}$

$M=\frac{(X+A)(P-Q)}{C}$

4. Solve for C.

$E\cdot\left(\frac{\sqrt{C+H}-K}{E}\right)=W\cdot E$

$\sqrt{C+H}-K=WE$

$+K \quad +K$

$\left(\sqrt{C+H}\right)^2=(WE+K)^2$

$C+H=(WE+K)^2$

$-H \quad -H$

$C=(WE+K)^2-H$