

Name: _____

Advanced Algebra: Solving Literal Equations

Solve for the indicated variable.

① $rs + rt = st$, for t

② $y - x = xy$, for x

③ $H = 2c + d + e$, for d

④ $ax - 6x = D$, for x

⑤ $\frac{n}{p} + r = q$, for n

⑥ $\frac{1}{3}x - 4y = 8$, for x

⑦ $A = \frac{1}{2}h(b_1 + b_2)$, for b_2

⑧ $A = p(1 + rt)$, for r

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Answers

① $rs + rt = st$, for t

$$\underline{t = \frac{rs}{s - r}}$$

② $y - x = xy$, for x

$$\underline{x = \frac{y}{y + 1}}$$

③ $H = 2c + d + e$, for d

$$\underline{d = H - 2c - e}$$

④ $ax - 6x = D$, for x

$$\underline{x = \frac{D}{a - 6}}$$

⑤ $\frac{n}{p} + r = q$, for n

$$\underline{n = pq - pr}$$

⑥ $\frac{1}{3}x - 4y = 8$, for x

$$\underline{x = 12(2 + y)}$$

⑦ $A = \frac{1}{2}h(b_1 + b_2)$, for b_2

$$\underline{b_2 = \frac{2A}{h} - b_1}$$

⑧ $A = p(1 + rt)$, for r

$$\underline{r = \frac{A}{pt} - \frac{1}{t}}$$