

UNIT 1 quiz Review Adv. Math

① $c - d - 8$
 $3.4 - 2.79 - 8$
 $0.61 - 8$
 -7.39

② $4 \div b \cdot c$
 $4 \div 5 \cdot 3.4$
 $0.8 \cdot 3.4$
 2.72

③ $7ac - 9 \div bd$
 $7 \cdot 7.2 \cdot 3.4 -$
 $- 9 \div 5 \cdot 2.79$
 $171.36 - 5.022$
 166.338

④ $(24 - 4 + 0.4) \div 2 \cdot 3$
 $20.4 \div 2 \cdot 3$
 30.6

⑤ $4a - 7 \leq 39$
 $+7 \quad +7$

$\frac{4a}{4} \leq \frac{46}{4}$

$a \leq 11.5$

$\begin{array}{r} 1 \\ 4 \overline{)46} \\ \underline{4} \\ 20 \end{array}$

⑥ $\frac{x}{4} = 12x - 2$
 $\frac{x}{4} - 12x = -2$
 $-\frac{47x}{4} = -2$
 $-\frac{47}{4}x = -2$

⑦ $t - 9t + 7y - 13 = 41 - 8t + 1$
 $8t + 7y - 13 = 46 - 8t$

$7y - 13 = 46$
 $+13 \quad +13$

$\frac{7y}{7} = \frac{59}{7}$

$y = \frac{59}{7}$

⑧ $\frac{4}{47} \cdot \frac{47}{4} x = \ominus 2 \cdot \frac{4}{47}$
 $x = \frac{+8}{47}$

$$\textcircled{8} \quad 5.4r + 6c - 19 > 37 - c + 5.4r + 9c$$

$$\begin{array}{r} 6c - 19 > 37 + 8c \\ -8c \qquad \qquad -8c \end{array}$$

$$\begin{array}{r} -2c - 19 > 37 \\ +19 \quad +19 \end{array}$$

$$\begin{array}{r} -2c > 56 \\ -2 \quad -2 \end{array}$$

$$\boxed{c < -28}$$

Flip the sign
when dividing
by a negative
#.

$$\textcircled{9} \quad \frac{150}{2} = 30 \cdot c$$

$$\frac{150}{30} = \frac{30c}{30}$$

$$\boxed{s = c}$$

$$\textcircled{10} \quad \begin{array}{r} 5h - 7 < 33 \\ +7 \quad +7 \\ \hline \end{array}$$

$$\frac{5h}{5} < \frac{40}{5}$$

$$\boxed{h < 8}$$

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