

Name: Key

Algebra II - Review for Final Exam Chapters 1, 2, and 3

Evaluate each expression if $q = \frac{1}{2}$, $r = 1.2$, $s = -6$, and $t = 5$

$$1. qr - st$$

$$\frac{1}{2}(1.2) - (-6)(5)$$

$$.6 + 30$$

$$\boxed{30.6}$$

$$2. \frac{5qr}{t}$$

$$\frac{5 \cdot \frac{1}{2} \cdot 1.2}{5} = \boxed{.6}$$

$$3. \frac{4q^3s+1}{t-1}$$

$$\frac{4(\frac{1}{2})^3(-6)+1}{5-1}$$

$$\frac{-6+1}{4} = \boxed{-\frac{5}{4}}$$

$$4. qr^2$$

$$\frac{1}{2} \cdot 36$$

$$\boxed{18}$$

Simplify each expression

$$5. 6(2a+3b) + 5(3a-4b)$$

$$12a+18b+15a-20b$$

$$\boxed{27a-2b}$$

$$6. \frac{4}{5}(3v-2w) - \frac{1}{5}(7v-2w)$$

$$\frac{12v}{5} - \frac{8w}{5} - \frac{7v}{5} + \frac{2w}{5}$$

$$\boxed{+v - \frac{6w}{5}}$$

Solve each equation or inequality.

$$7. 5t + 8 = 88$$

$$5t = 80$$

$$\boxed{t = 16}$$

$$8. 3(k-2) = k+4$$

$$3k-6 = k+4$$

$$2k = 10$$

$$\boxed{k = 5}$$

$$9. d-1 = \frac{1}{2}(d-2)$$

$$d = \frac{1}{2}d - 1 + 1$$

$$\frac{1}{2}d = 0$$

$$\boxed{d = 0}$$

$$10. -27r + 37 = 5$$

$$-27r + 3 = 35$$

$$-27r = 32$$

$$\boxed{r = -\frac{32}{27}}$$

$$11. |a-6| = 10$$

$$a-6 = \pm 10$$

$$a = 6 \pm 10$$

$$\boxed{16, -4}$$

$$12. 6|g-3| = 42$$

$$|g-3| = 7$$

$$g-3 = \pm 7$$

$$g = 3 \pm 7$$

$$\boxed{10, -4}$$

$$13. |5t| + 2 = 3t + 18$$

$$|5t| = 3t + 16$$

$$5t = \pm(3t + 16)$$

$$5t = 3t + 16 \quad 5t = -3t - 16$$

$$\boxed{t = 8} \quad \boxed{t = -2}$$

$$14. 2z+5 \leq 7$$

$$2z \leq 2$$

$$\boxed{z \leq 1}$$

$$15. |2b+4| - 3 = 6b+1$$

$$|2b+4| = 6b+4$$

$$2b+4 = 6b+4 \quad 2b+4 = -6b-4$$

$$0 = 4b \quad 8b = -8$$

$$b = 0 \quad b = -1$$

$$16. 8(2c-1) > 11c+22$$

$$16c-8 > 11c+22$$

$$5c > 30$$

$$\boxed{c > 6}$$

$$17. 8-3t < 4(3-t)$$

$$8-3t < 12-4t$$

$$\boxed{t < 4}$$

$$18. \frac{a+8}{4} \leq \frac{7+a}{3}$$

$$3a+24 \leq 28+4a$$

$$-4 \leq a$$

$$\boxed{a \geq -4}$$

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Zhe Xu



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