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Name : _____

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Identifying Solutions - MCQ

One-step: 51

Choose the correct solution that best describes each inequality.

<p>1) $x + 6 \geq 14$ or $x - 2 \leq 3$</p> <p>a) $x \leq 5$ or $x \geq 8$ b) $x \leq 5$</p> <p>c) $5 \leq x \leq 8$ d) $x \geq 8$</p>	<p>2) $2x < 12$ and $x - 1 \geq 2$</p> <p>a) $x < 6$ b) $3 < x \leq 6$</p> <p>c) $x \leq 3$ d) $3 \leq x < 6$</p>
<p>3) $3x < 21$ or $5x > 55$</p> <p>a) $x < -11$ or $x > 7$ b) $x < 7$ or $x > 11$</p> <p>c) $x < 7$ d) $x > -11$</p>	<p>4) $-5 \leq x + 15 < 7$</p> <p>a) $x \geq -20$ b) $x < -8$</p> <p>c) $-20 \leq x < -8$ d) $-20 \leq x < 8$</p>
<p>5) $\frac{x}{2} > 4$ and $\frac{x}{9} < 2$</p> <p>a) $x > 8$ and $x < 18$ b) $x < -18$</p> <p>c) $x > 8$ d) $-18 < x < 8$</p>	<p>6) $5x \geq 15$ or $x + 4 > 13$</p> <p>a) $x \leq 3$ or $x > 9$ b) $x \geq 3$</p> <p>c) $3 \leq x < 9$ d) $x > 9$</p>
<p>7) $16 \leq 4x < 28$</p> <p>a) $x \geq 7$ b) $x < 7$</p> <p>c) $7 \geq x > 4$ d) $4 \leq x < 7$</p>	<p>8) $8x \geq 32$ or $\frac{x}{9} > 2$</p> <p>a) $x \geq 4$ b) $4 \leq x < 18$</p> <p>c) $x > 4$ d) $x \geq 18$</p>
<p>9) $7x \geq 49$ or $2x < -16$</p> <p>a) $x \geq 7$ b) $-8 < x \leq 7$</p> <p>c) $x < -8$ or $x \geq 7$ d) $x < -8$</p>	<p>10) $10 + x \geq 7$ and $3x \leq 36$</p> <p>a) $3 \leq x \leq 12$ b) $x \leq 12$</p> <p>c) $x \geq -3$ d) $x \geq -3$ and $x \leq 12$</p>

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Algebra II Exam C Review One

Solve each equation. Be sure to check your solutions!

1. $\frac{x}{2} + \frac{5}{x} = \frac{45}{2x}$ $\frac{x-2}{x+1} = \frac{5}{x-3}$ $\frac{3x}{x-2} = 9 - \frac{1}{x-2}$

2. $\frac{x+2}{x-1} = \frac{4}{2x-2}$ $\frac{x-2}{x+3} = \frac{7}{x^2-9}$

Simplify each expression. Assume all variables are positive.

6. $\sqrt{x^2-12x+36}$ 7. $\sqrt{32x^3}$

Write in radical form and simplify.

8. $16^{\frac{1}{2}}$ Radical form: $\sqrt[4]{16}$ Simplified: 2

Write using rational exponents. Then simplify.

9. $(\sqrt[3]{1000})^2$ Rational exponents: $(10^{\frac{3}{3}})^2$ Simplified: 100

Simplify.

10. $\sqrt{4} + \sqrt{9}$ $(1+2)^2$ 11. $2^{-3} \sqrt{2}$ $-2\sqrt[3]{2}$

Worksheet Piecewise Functions
Algebra 2
Home Work

Name: _____

Part I. Carefully graph each of the following. Identify whether or not the graph is a function. Then, evaluate the graph at any specified domain value.

1. $f(x) = \begin{cases} x+5 & x < -2 \\ -2x+3 & x \geq -2 \end{cases}$

Function? Yes or No

$f(3) =$

$f(-4) =$

$f(-2) =$

2. $f(x) = \begin{cases} 2x+1 & x \geq 1 \\ x+3 & x < 1 \end{cases}$

Function? Yes or No

$f(-2) =$

$f(6) =$

$f(1) =$

3. $f(x) = \begin{cases} -2x+1 & x \leq 2 \\ 5x-4 & x > 2 \end{cases}$

Function? Yes or No

$f(-4) =$

$f(8) =$

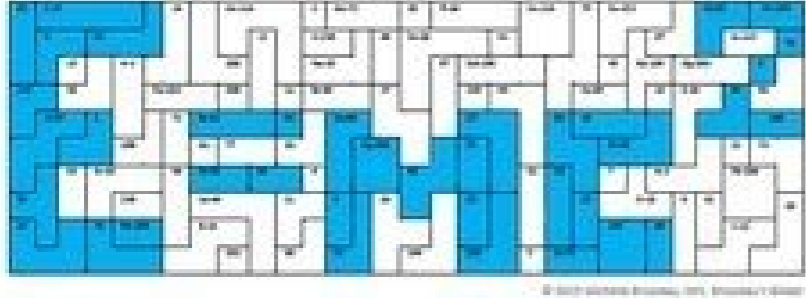
$f(2) =$

Isotopes: Find the Message

Date: _____ Name: Solutions

In the chart below, record the missing values and isotopes using a Periodic Table. Then, find the shape with the corresponding missing value or isotope and shade it in.

Isotope	Standard Notation	Atomic Mass	Atomic Number	Number of Protons	Number of Neutrons	Number of Electrons
H-2	${}^2_1\text{H}$	2	1	1	1	1
C-14	${}^{14}_6\text{C}$	14	6	6	8	6
Cl-37	${}^{37}_{17}\text{Cl}$	37	17	17	20	17
Ni-58	${}^{58}_{28}\text{Ni}$	58	28	28	30	28
Ni-60	${}^{60}_{28}\text{Ni}$	60	28	28	32	28
Cu-65	${}^{65}_{29}\text{Cu}$	65	29	29	36	29
Se-78	${}^{78}_{34}\text{Se}$	78	34	34	44	34
Kr-86	${}^{86}_{36}\text{Kr}$	86	36	36	50	36
Rb-79	${}^{79}_{37}\text{Rb}$	79	37	37	42	37
Br-81	${}^{81}_{35}\text{Br}$	81	35	35	46	35
U-235	${}^{235}_{92}\text{U}$	235	92	92	143	92
Pb-204	${}^{204}_{82}\text{Pb}$	204	82	82	122	82
Hg-204	${}^{204}_{80}\text{Hg}$	204	80	80	124	80
Os-190	${}^{190}_{76}\text{Os}$	190	76	76	114	76



	<p>13. Domain: $(-\infty, \infty)$</p> <p>14. End Behavior: $\text{As } x \rightarrow \infty, f(x) \rightarrow \infty$ $\text{As } x \rightarrow -\infty, f(x) \rightarrow -\infty$</p> <p>15. Find $f'(x) = 0$ $(0, 4)$</p> <p>16. Zeros: $-2, 0, 2$</p> <p>17. Absolute Maximum: 4</p> <p>18. Relative Maximum: 4</p>
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