

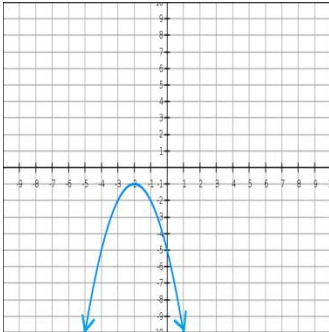
NAME _____

CTE, HSF.IF.C.7.A

There was an error made while graphing the following quadratic function. Describe the error and graph the quadratic function correctly.

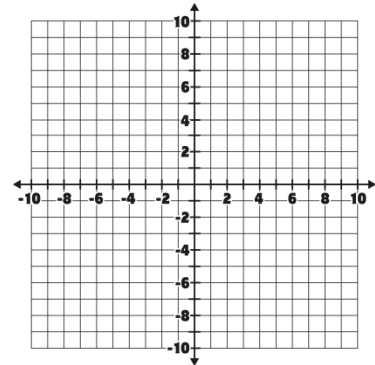
$$\text{Graph } f(x) = x^2 + 2x - 1$$

Wrong:



Describe the Error:

Correct Solution:



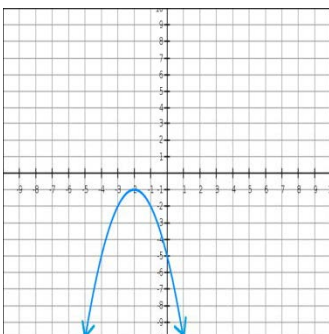
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CTE, HSF.IF.C.7.A

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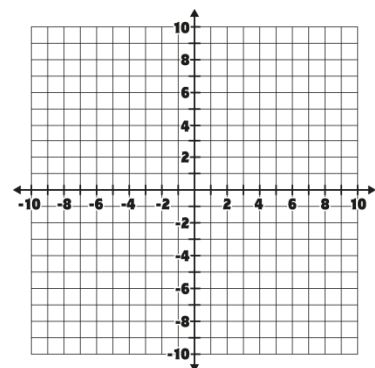
$$\text{Graph } f(x) = x^2 + 2x - 1$$

Wrong:



Describe the Error:

Correct Solution:



NAME _____

CTE, HSA.APR.D.6

There was an error made while reducing the rational expression to lowest terms.
Describe the error and simplify the expression correctly.

Reduce $\frac{n^2-25}{n^2+6n+5}$ to lowest terms

Wrong:

Describe the Error:

Correct Solution:

$$\frac{\cancel{n^2} - 25}{\cancel{n^2} + 6n + 5}$$
$$= \frac{-25}{6n + 5}$$

NAME _____

CTE, HSA.APR.D.6

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Wrong:

Describe the Error:

Correct Solution:

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$$= \frac{-25}{6n + 5}$$

NAME _____

CTE, 8.EE.A.1

There was an error made while simplifying the following expression. Describe the error made and simplify the expression correctly.

Simplify $2x^8 \cdot x^3$

Wrong:

$$2x^8 \cdot x^3 = 2x^{24}$$

Describe the Error:

Correct Solution:

NAME _____

CTE, 8.EE.A.1

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Simplify $2x^8 \cdot x^3$

Wrong:

$$2x^8 \cdot x^3 = 2x^{24}$$

Describe the Error:

Correct Solution:

NAME _____

CTE, HSA.REI.B.3

There was an error made while solving the following equation. Describe the error made and solve the equation correctly.

$$\text{Solve } 5 - 2(x - 3) = 7$$

Wrong:

Describe the Error:

Correct Solution:

$$5 - 2(x - 3) = 7$$

$$5 - 2x - 6 = 7$$

$$-2x - 1 = 7$$

$$-2x = 8$$

$$x = -4$$

NAME _____

CTE, HSA.REI.B.3

There was an error made while solving the following equation. Describe the error made and solve the equation correctly.

$$\text{Solve } 5 - 2(x - 3) = 7$$

Wrong:

Describe the Error:

Correct Solution:

$$5 - 2(x - 3) = 7$$

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NAME _____

CTE, 8.EE.A.1

There was an error made while simplifying the following expression. Describe the error made and simplify the expression correctly.

Simplify $\frac{a^{-3}}{b^4}$

Wrong:

$$\frac{a^{-3}}{b^4} = \frac{b^4}{a^3}$$

Describe the Error:

Correct Solution:

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Wrong:

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Describe the Error:

Correct Solution:

NAME _____

CTE, HSF.IF.A.2

There was an error made while evaluating the following function. Describe the error made and evaluate the function correctly.

Find $f(-3)$ given $f(x) = 2x^2 - 3x$

Wrong:

Describe the Error:

Correct Solution:

$$f(-3) = 2(-3)^2 - 3(-3)$$

$$f(-3) = 2(9) - 9$$

$$f(-3) = 18 - 9$$

$$f(-3) = 9$$

NAME _____

CTE, HSF.IF.A.2

There was an error made while evaluating the following function. Describe the error made and evaluate the function correctly.

Find $f(-3)$ given $f(x) = 2x^2 - 3x$

Wrong:

Describe the Error:

Correct Solution:

$$f(-3) = 2(-3)^2 - 3(-3)$$

$$f(-3) = 2(9) - 9$$

$$f(-3) = 18 - 9$$

$$f(-3) = 9$$

NAME _____

CTE, HSF.REI.B.3

There was an error made while solving the following inequality. Describe the error made and solve the inequality correctly.

Solve $-3x + 5 < 2$

Wrong:

$$\begin{aligned} -3x + 5 &< 2 \\ -3x &< -3 \\ x &< 1 \end{aligned}$$

Describe the Error:

Correct Solution:

NAME _____

CTE, HSF.REI.B.3

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Solve $-3x + 5 < 2$

Wrong:

$$\begin{aligned} -3x + 5 &< 2 \\ -3x &< -3 \\ x &< 1 \end{aligned}$$

Describe the Error:

Correct Solution:

NAME _____

CTE, 8.F.B.4

There was an error made writing a linear equation for the table. Describe the error made and write the correct linear equation.

x	-1	0	1	2
y	4	6	8	10

Wrong:

$$y = \frac{1}{2}x + 6$$

Describe the Error:

Correct Solution:

NAME _____

CTE, 8.F.B.4

There was an error made writing a linear equation for the table. Describe the error made and write the correct linear equation.

x	-1	0	1	2
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Wrong:

$$y = \frac{1}{2}x + 6$$

Describe the Error:

Correct Solution:

NAME _____

CTE, HSF.REI.B.4

There was an error made while solving the following equation. Describe the error made and solve the equation correctly.

Solve $(x + 2)^2 = 49$

Wrong:

$$\begin{aligned}(x + 2)^2 &= 49 \\ x + 2 &= 7 \\ x &= 5\end{aligned}$$

Describe the Error:

Correct Solution:

NAME _____

CTE, HSF.REI.B.4

There was an error made while solving the following equation. Describe the error made and solve the equation correctly.

Solve $(x + 2)^2 = 49$

Wrong:

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Describe the Error:

Correct Solution:

NAME _____

CTE, HSF.REI.B.4

There was an error made while solving and simplifying the following equation.
Describe the error made and solve and simplify the equation correctly.

$$\text{Solve } 2x^2 = 100$$

Wrong:

Describe the Error:

Correct Solution:

$$2x^2 = 100$$

$$x^2 = 50$$

$$x = \pm\sqrt{50}$$

$$x = \pm 25\sqrt{2}$$

NAME _____

CTE, HSF.REI.B.4

There was an error made while solving and simplifying the following equation.
Describe the error made and solve and simplify the equation correctly.

$$\text{Solve } 2x^2 = 100$$

Wrong:

Describe the Error:

Correct Solution:

$$2x^2 = 100$$

$$x^2 = 50$$

$$x = \pm\sqrt{50}$$

$$x = \pm 25\sqrt{2}$$

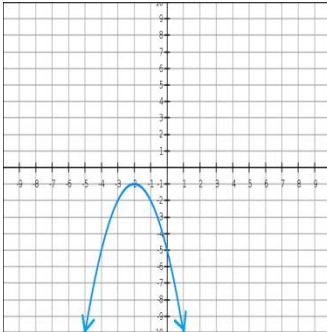
NAME ANSWER KEY

CTE, HSF.IF.C.7.A

There was an error made while graphing the following quadratic function. Describe the error and graph the quadratic function correctly.

$$\text{Graph } f(x) = x^2 + 2x - 1$$

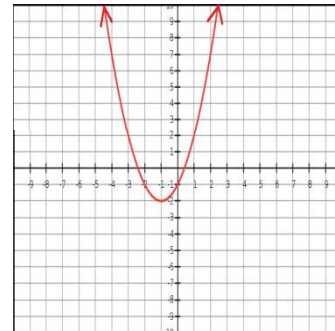
Wrong:



Describe the Error:

Vertex is not $(-2, -1)$ and it is open upward.

Correct Solution:



NAME ANSWER KEY

CTE, HSA.APR.D.6

There was an error made while reducing the rational expression to lowest terms. Describe the error and simplify the expression correctly.

Reduce $\frac{n^2-25}{n^2+6n+5}$ to lowest terms

Wrong:

$$\frac{\cancel{n^2} - 25}{\cancel{n^2} + 6n + 5} = \frac{-25}{6n + 5}$$

Describe the Error:

Must factor and then cancel like factors.

Correct Solution:

$$\frac{n - 5}{n + 1}$$

NAME ANSWER KEY

CTE, 8.EE.A.1

There was an error made while simplifying the following expression. Describe the error made and simplify the expression correctly.

Simplify $2x^8 \cdot x^3$

Wrong:

$$2x^8 \cdot x^3 = 2x^{24}$$

Describe the Error:

Exponents were multiplied but should be added when multiplying exponent terms that have the same base.

Correct Solution:

$$2x^{11}$$

NAME ANSWER KEY

TE, HSA.REI.B.3

There was an error made while solving the following equation. Describe the error made and solve the equation correctly.

Solve $5 - 2(x - 3) = 7$

Wrong:

$$\begin{aligned} 5 - 2(x - 3) &= 7 \\ 5 - 2x - 6 &= 7 \\ -2x - 1 &= 7 \\ -2x &= 8 \\ x &= -4 \end{aligned}$$

Describe the Error:

Multiplying $-2(-3)$ when using the distributive property should be $+6$ not -6 .

Correct Solution:

$$x = 2$$

There was an error made while simplifying the following expression. Describe the error made and simplify the expression correctly.

Simplify $\frac{a^{-3}}{b^4}$

Wrong:

$$\frac{a^{-3}}{b^4} = \frac{b^4}{a^3}$$

Describe the Error:

Taking the reciprocal of a negative exponent makes the exponent positive, b^4 should stay in the denominator because it already has a positive exponent.

Correct Solution:

$$\frac{1}{a^3 b^4}$$

There was an error made while evaluating the following function. Describe the error made and evaluate the function correctly.

Find $f(-3)$ given $f(x) = 2x^2 - 3x$

Wrong:

$$\begin{aligned} f(-3) &= 2(-3)^2 - 3(-3) \\ f(-3) &= 2(9) - 9 \\ f(-3) &= 18 - 9 \\ f(-3) &= 9 \end{aligned}$$

Describe the Error:

$-3(-3)$ should result in +9 not -9

Correct Solution:

$$f(-3) = 27$$

NAME ANSWER KEY

CTE, HSF.REI.B.3

There was an error made while solving the following inequality. Describe the error made and solve the inequality correctly.

Solve $-3x + 5 < 2$

Wrong:

$$\begin{aligned} -3x + 5 &< 2 \\ -3x &< -3 \\ x &< 1 \end{aligned}$$

Describe the Error:

Dividing an inequality by -3 reverses the inequality symbol.

Correct Solution:

$$x > 1$$

NAME ANSWER KEY

CTE, 8.F.B.4

There was an error made writing a linear equation for the table. Describe the error made and write the correct linear equation.

x	-1	0	1	2
y	4	6	8	10

Wrong:

$$y = \frac{1}{2}x + 6$$

Describe the Error:

The slope is incorrect, change in x over change in y, should be change in y over change in x.

Correct Solution:

$$y = 2x + 6$$

NAME ANSWER KEY

CTE, HSF.REI.B.4

There was an error made while solving the following equation. Describe the error made and solve the equation correctly.

$$\text{Solve } (x + 2)^2 = 49$$

Wrong:

$$\begin{aligned}(x + 2)^2 &= 49 \\ x + 2 &= 7 \\ x &= 5\end{aligned}$$

Describe the Error:

Square root results in ± 7
not just +7.

Correct Solution:

$$x = 5, -9$$

NAME ANSWER KEY

CTE, HSF.REI.B.4

There was an error made while solving and simplifying the following equation. Describe the error made and solve and simplify the equation correctly.

$$\text{Solve } 2x^2 = 100$$

Wrong:

$$\begin{aligned}2x^2 &= 100 \\ x^2 &= 50 \\ x &= \pm\sqrt{50} \\ x &= \pm 25\sqrt{2}\end{aligned}$$

Describe the Error:

$\sqrt{50}$ is simplified incorrectly.
It needs to be 5 not 25 in
reduced form.

Correct Solution:

$$x = \pm 5\sqrt{2}$$

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