Thank you for your interest.

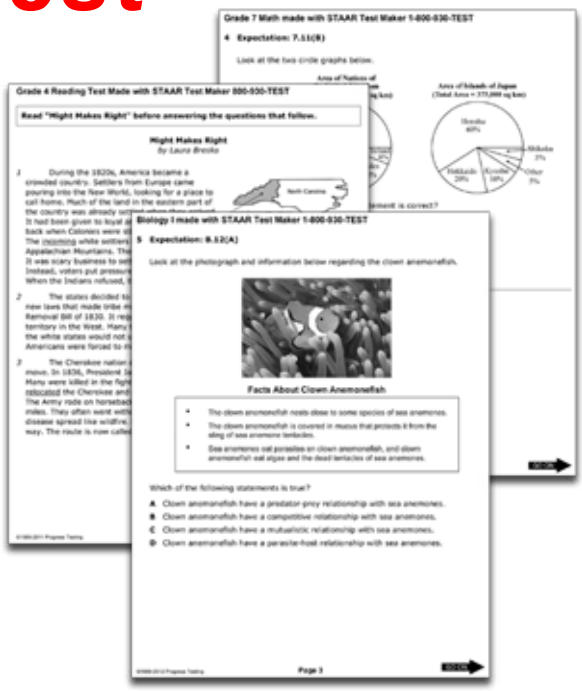
Here is your sample test made with

STAAR Test Maker

By Progress Testing

About the Sample Test

- *All items written to assess mastery of STAAR-eligible TEKS*
- *Items coded with TEKS, Readiness and Supporting Standards, Process Skill, Webb Cognitive Complexity Levels*
- *All STAAR Item Types included: Multiple Choice, Gridded Response, Constructed Response, and Thousands of High Complexity Items*
- *Items formatted to match official STAAR tests*



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1 Expectation: 2A.3(B)

A system of equations is represented in matrix form below.

$$\begin{bmatrix} 0 & 2 & 1 \\ 1 & 2 & 2 \\ 2 & 1 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 4 \\ 6 \\ 7 \end{bmatrix}$$

What is the value of z in this system of equations?

A $z = -\frac{2}{3}$

B $z = \frac{2}{3}$

C $z = \frac{7}{3}$

D $z = \frac{8}{3}$

2 Expectation: 2A.11(A)

If the graph of the equation $y = e^x$ is reflected over the line $y = x$, what is the equation of the resulting graph?

F $y = e^{-x}$

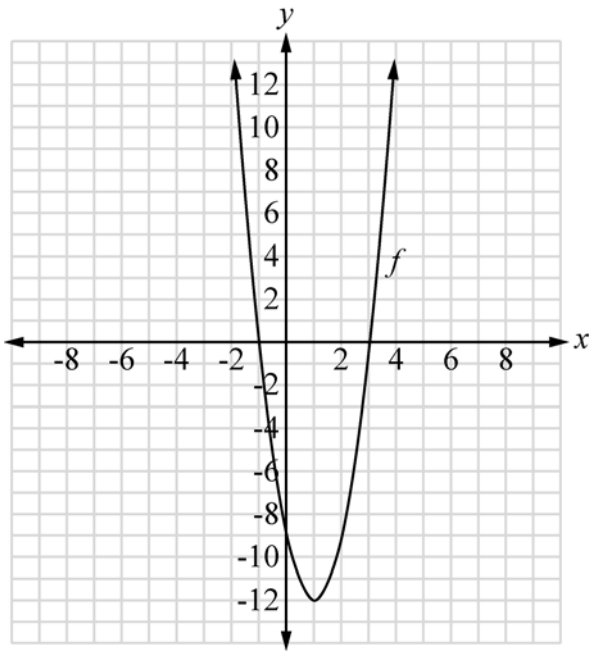
G $y = \ln(x)$

H $y = x$

J $y = x^2$

3 Expectation: 2A.7(A)

The quadratic function $f(x) = 3(x - 1)^2 - 12$ is graphed on the coordinate plane below.



If $g(x) = ax^2 + bx + c$ represents the reflection of f across the x-axis, what are the values of a, b, and c?

A $a = -3$, $b = -6$, $c = -9$

B $a = 3$, $b = 6$, $c = -15$

C $a = 3$, $b = -6$, $c = 15$

D $a = -3$, $b = 6$, $c = 9$

GO ON

4 Expectation: 2A.10(F)

The function below models the percentage, P, of an injected drug remaining in the bloodstream t hours after it is injected into a patient.

$$P(t) = \frac{2t}{t^2 + 1}$$

Which quadratic equation can be used to find the amount of time that has passed since injection if 60% of the drug has been metabolized and is no longer in the patient's bloodstream?

F $0.6t^2 - 2t + 0.6 = 0$

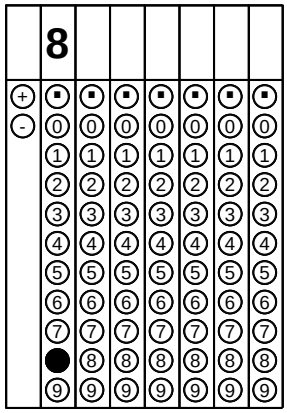
G $0.4t^2 - 2t + 1 = 0$

H $0.6t^2 - 2t + 1 = 0$

J $0.4t^2 - 2t + 0.4 = 0$

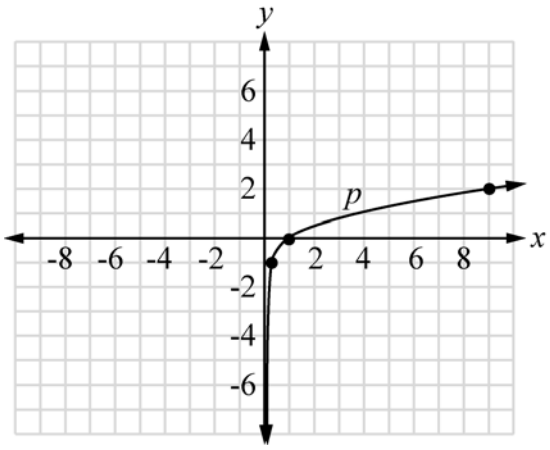
5 Expectation: 2A.8(D)

What is the positive root of the equation $x^2 - 5x = 24$?



6 Expectation: 2A.4(B)

The graph below is the parent function $p(x) = \frac{\log x}{\log 3}$. It passes through three points marked on the graph: (9, 2), (1, 0), and $(\frac{1}{3}, -1)$.



Which function represents a transformation of this parent function where each of the marked points has been translated 1 unit up and 1 unit to the left?

F $f(x) = \frac{\log x}{\log 2}$

G $f(x) = \frac{\log (x - 1)}{\log 3} - 1$

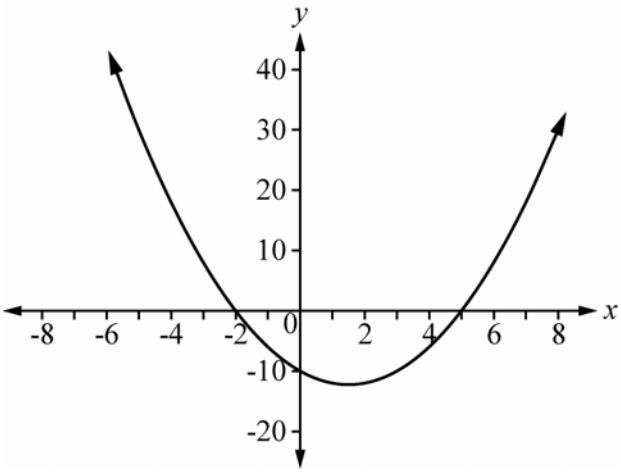
H $f(x) = \frac{\log (x + 1)}{\log 3} + 1$

J $f(x) = \frac{\log (x + 1)}{\log 3} - 1$

GO ON

7 **Expectation: 2A.8(C)**

The graph of the quadratic equation $y = x^2 + (a - b)x - ab$ is shown below, where $a > 0$.



What is the value of $a + b$?

A -7

B -3

C 3

D 7

8 **Expectation: 2A.9(C)**

The solution to the equation shown below is $x = 23$.

$$\sqrt{2x - 10} - 1 = 5$$

What is the solution set of the inequality $\sqrt{2x - 10} - 1 < 5$?

F $10 \leq x < 23$

G $x < 23$

H $x > 23$

J $5 \leq x < 23$

9 **Expectation: 2A.9(C)**

Myron was asked to find solutions to the equation below.

$$\sqrt{x^2 + 8} = 1 + \sqrt{x^2 + 19}$$

He squared both sides of the equation and eventually found two solutions, $x = \sqrt{17}$ and $x = -\sqrt{17}$. Which of the following statements about the reasonableness of Myron's solutions is correct?

A Both of Myron's solutions are reasonable, since they were reached algebraically without making any assumptions about the existence of solutions.

B Only one of Myron's solutions is reasonable, $x = -\sqrt{17}$, since it yields a true statement when substituted into the original equation.

C Neither of Myron's solutions is reasonable, since neither yields a true statement when substituted into the original equation.

D Only one of Myron's solutions is reasonable, $x = \sqrt{17}$, since negative solutions should be disregarded in square root equations.

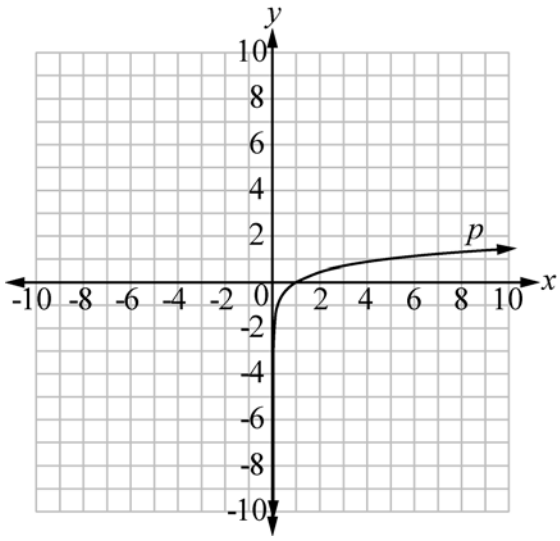
GO ON

10 Expectation: 2A.4(A)

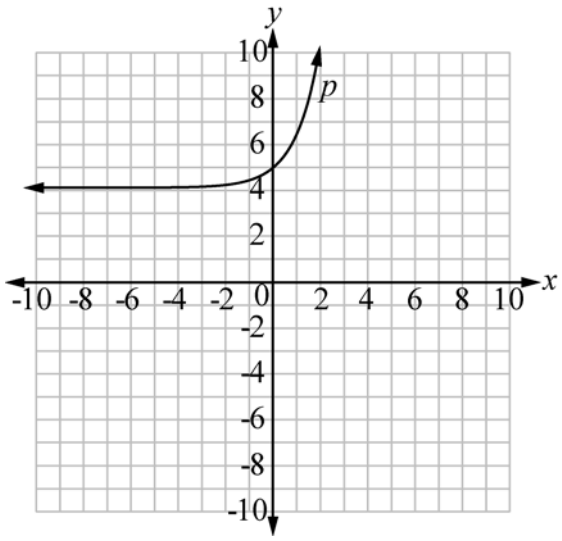
Which graph shows the parent function, p, of the function below?

$$f(x) = \log_5 (2x + 2)$$

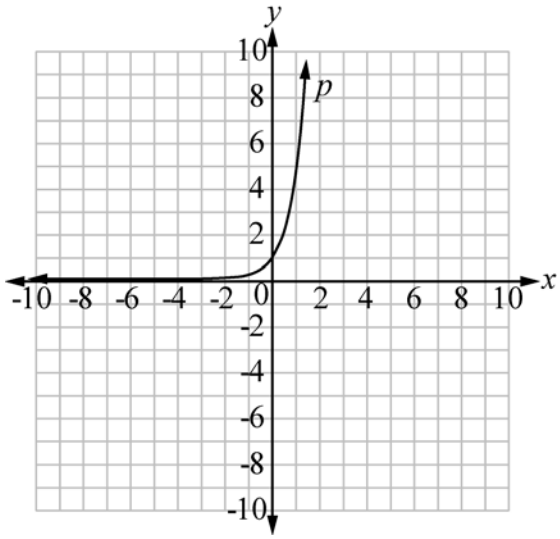
F



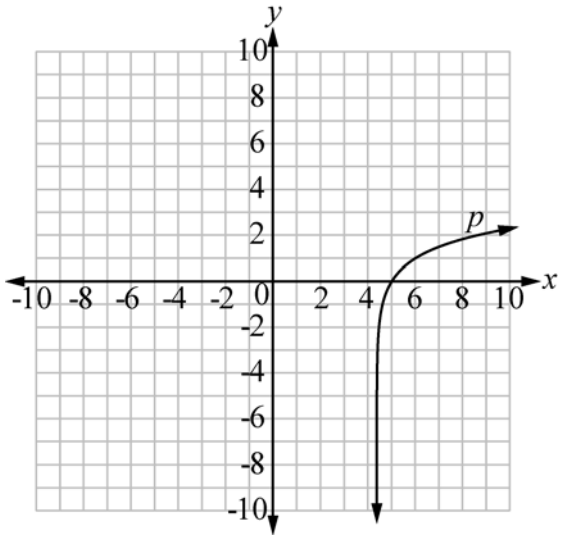
H



G



J



STOP

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Item Number	Reporting Category	Readiness or Supporting	Content Student Expectation	Correct Answer
1	2	Readiness	2A.3(B)	A
2	7	Readiness	2A.11(A)	G
3	4	Readiness	2A.7(A)	D
4	6	Readiness	2A.10(F)	J
5	3	Readiness	2A.8(D)	8
6	1	Readiness	2A.4(B)	H
7	3	Supporting	2A.8(C)	D
8	5	Supporting	2A.9(C)	J
9	5	Supporting	2A.9(C)	C
10	1	Supporting	2A.4(A)	F

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