

- Sketch the graph of the parent function $f(x) = \sqrt{x}$. Identify the transformations of the function: $g(x) = \sqrt{x - 3} + 1$
- Identify the inverse function of the equation $f(x) = 2x + 5$
- Identify the y-intercept of the exponential function: $f(x) = 4^x + 6$. Write the y-intercept as an ordered pair.
- Simplify: $\left(\frac{121x^{-8}}{16y^2}\right)^{\frac{1}{2}}$
- Solve the equation for m : $y = mx + b$
- If the function $f(x) = 2^{x-3} + 7$ is translated five units to the left and three units down. What would the equation of the resulting function be?
- Simplify: $-9(2x - 5y) + 3(4x + 6y)$
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$$(-2x^2 + 6x + 1) - 2(4x^2 - 3x + 1) =$$

- A $6x^2 - 1$
 B $-10x^2 - 1$
 C $6x^2 + 12x - 1$
 D $-10x^2 + 12x - 1$

9.

Multiple Choice Which of the following relations is *not* a function?

(A)

x	2	4	6
y	1	3	5

 (B)

x	0	1	2
y	0	1	2

(C)

x	4	6	8
y	8	6	4

 (D)

x	5	6	7
y	2	3	3

(E)

x	3	3	6
y	1	4	7

10.

Multiple Choice If $g(x) = x^2 + 3x - 5$, what is $g(-2)$?

- (A) -7 (B) 5
 (C) -1 (D) -3
 (E) -15