Answer on Question #55818 – Math – Algebra

Task 7. Consider the function $y = x^2 + 5x - 2$, what would happen to the graph if $(x - 3)$ was submitted in place of the x

A: The graph would shift 3 units to the left

B: The graph would shift 3 units to the right

C: The graph would shift up 3 units.

D: The graph would shift down 3 units.

Answer: B

Task 8. Which of the following accurately depicts the transformation of $y = x^2$ to the function shown below.

$Y = 2(x - 3)^2 + 5$

A: Shift left 3 units, shrink vertically to ½ of the original height, then shift up 5 units.

B: Shift up 3 units, stretch horizontally by a factor of 2, then shift left 5 units.

C: Shift 5 units right, stretch vertically by a factor of 3, then shift up 2 units.

D: Shift right 3 units, stretch vertically by a factor of 2, then shift up 5 units.

Answer: D