Exercise 1 *Let the function B be defined as $B(k) = 2(k+3)^2 - 5$ with a domain of $(-\infty, \infty)$. Which of the following are pairs in B?*

Select All Correct Answers:

(a) $(-1, 3)$ ✓

(b) $(-3, -5)$ ✓

(c) $(-2, -3)$ ✓

(d) $(0, 13)$ ✓

Exercise 2 *Let the function B be defined as $B(k) = 2(k+3)^2 - 5$ with a domain of $[-3, \infty)$. Which of the following are pairs in B?*

Select All Correct Answers:

(a) $(-1, 3)$ ✓

(b) $(-3, -5)$ ✓

(c) $(-2, -3)$ ✓

(d) $(0, 13)$ ✓

Exercise 3 *Let the function B be defined as $B(k) = 2(k+3)^2 - 5$ with a domain of $(-3, \infty)$. Which of the following are pairs in B?*

Select All Correct Answers:

(a) $(-1, 3)$ ✓

(b) $(-3, -5)$

(c) $(-2, -3)$ ✓

(d) $(0, 13)$ ✓

Exercise 4 *Let the function B be defined as $B(k) = 2(k+3)^2 - 5$ with a domain of $[0, \infty)$. Which of the following are pairs in B?*

Select All Correct Answers:

(a) $(-1, 3)$

(b) $(-3, -5)$

(c) $(-2, -3)$

(d) $(0, 13)$

Exercise 5 *Let the function B be defined as $B(k) = 2(k+3)^2 - 5$ with a domain of $(-\infty, \infty)$. Let A be any real number. Then $B(A) > -5$.*

Multiple Choice:

(a) *True*

(b) *False* ✓

Exercise 6 *Let the function B be defined as $B(k) = 2(k+3)^2 - 5$ with a domain of $(-\infty, \infty)$. Let A be any real number. Then $B(A) \geq -5$.*

Multiple Choice:

(a) *True* ✓

(b) *False*
