



# Find the Range

Name \_\_\_\_\_

Score \_\_\_\_\_

DR:14

Find the range of each function by completing the table.

Q. No	Functions	Domain	Range
1)	$f(x) = \sqrt{2x} - 8$	$\{-8, 0, 2, 18\}$	
2)	$f(x) = 5 - 3x$	$\{-7, -5, -4, -2, -1, 3\}$	
3)	$f(x) = \frac{x}{2}$	$\{2, 4, 8, 12, 14, 18, 20\}$	
4)	$f(x) = x^3 - x^2 - x + 4$	$\{-2, -1, 0, 2, 4\}$	
5)	$f(x) = \frac{2x + 3}{3}$	$\{-18, -12, -9, -6\}$	
6)	$f(x) = -7x$	$\{-4, -3, -1, 2, 5, 7\}$	
7)	$f(x) = x + 4$	$\{-10, -5, 5, 6, 8, 9, 11\}$	
8)	$f(x) = -3x^2 + 1$	$\{-5, -4, -2, -1, 3\}$	



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## Answer key

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Find the range of each function by completing the table.

Q. No	Functions	Domain	Range
1)	$f(x) = \sqrt{2x} - 8$	{-8, 0, 2, 18}	<b>{-4, -8, -6, -2}</b>
2)	$f(x) = 5 - 3x$	{-7, -5, -4, -2, -1, 3}	<b>{-4, 8, 11, 17, 20, 26}</b>
3)	$f(x) = \frac{x}{2}$	{2, 4, 8, 12, 14, 18, 20}	<b>{1, 2, 4, 6, 7, 9, 10}</b>
4)	$f(x) = x^3 - x^2 - x + 4$	{-2, -1, 0, 2, 4}	<b>{-6, 3, 4, 6, 48}</b>
5)	$f(x) = \frac{2x + 3}{3}$	{-18, -12, -9, -6}	<b>{-11, -7, -5, -3}</b>
6)	$f(x) = -7x$	{-4, -3, -1, 2, 5, 7}	<b>{-49, -35, -14, 7, 21, 28}</b>
7)	$f(x) = x + 4$	{-10, -5, 5, 6, 8, 9, 11}	<b>{-6, -1, 9, 10, 12, 13, 15}</b>
8)	$f(x) = -3x^2 + 1$	{-5, -4, -2, -1, 3}	<b>{-74, -47, -26, -11, -2}</b>