

Determining Points on a Given Equation

For each given equation, choose any 5 x -values to plug in, then determine the value of y using that x . Once you have each point, create an xy table and a list of points. Then answer the questions below.

The **x -values** that you choose to plug in are **input values** and are part of the **domain**. The **y -values** that result are **output values** and are part of the **range**.

Equation:	Determine points and write them	...as an XY Table...	...and as a list of points.	Critical Thinking Questions:																								
<p>Example $f(x) = -7x + 4$ is the same as: $y = -7x + 4$</p> <p>If $x = -3 \rightarrow y = -7(-3) + 4$ $y = 21 + 4 = \boxed{25}$</p> <p>If $x = 5 \rightarrow y = -7(5) + 4$ $y = -35 + 4 = \boxed{-31}$</p> <p>If $x = 0 \rightarrow y = -7(0) + 4$ $y = 0 + 4 = \boxed{4}$</p> <p>If $x = 25 \rightarrow y = -7(25) + 4$ $y = -175 + 4 = \boxed{-171}$</p> <p>If $x = -8 \rightarrow y = -7(-8) + 4$ $y = 56 + 4 = \boxed{60}$</p>	<p><i>I can pick any x that I want, but, to get a better idea of how this equation would look, I'm going to use two negatives, 0, and two positives.</i></p> <p>If $x = -3$, then $y = \underline{25}$.</p> <p>If $x = 5$, then $y = \underline{-31}$.</p> <p>If $x = 0$, then $y = \underline{4}$.</p> <p>If $x = 25$, then $y = \underline{-171}$.</p> <p>If $x = -8$, then $y = \underline{60}$.</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 50%;">Domain x</th> <th style="width: 50%;">Range y</th> </tr> </thead> <tbody> <tr> <td colspan="2"><i>Write x's from lowest to highest</i></td> </tr> <tr> <td>-8</td> <td>60</td> </tr> <tr> <td>-3</td> <td>25</td> </tr> <tr> <td>0</td> <td>4</td> </tr> <tr> <td>5</td> <td>-31</td> </tr> <tr> <td>25</td> <td>-171</td> </tr> </tbody> </table>	Domain x	Range y	<i>Write x's from lowest to highest</i>		-8	60	-3	25	0	4	5	-31	25	-171	<p><i>Write as (x, y) points in order from least x to greatest x.</i></p> <p>$\{(-8, 60), (-3, 25), (0, 4), (5, -31), (25, -171)\}$</p>	<p><u>Limits on the Domain</u> Is there anything that x CANNOT ever be? If yes, what?</p> <p><i>I can plug in any x be able to solve it. There are no limits to this domain.</i></p> <p><u>Limits on the Range</u> Is there anything that y CANNOT ever be? If yes, what?</p> <p><i>Negative x's make y get bigger, and positive x's keep making y smaller. I don't think there is a point when y stops growing with x. There are no limits to this range.</i></p>										
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<p>Example $m(x) = 5x^2$ $y = 5x^2$</p> <p>If $x = 10 \rightarrow y = 5(10)^2$ $y = 5(100) = \boxed{500}$</p> <p>If $x = -2 \rightarrow y = 5(-2)^2$ $y = 5(4) = \boxed{20}$</p> <p>If $x = 4 \rightarrow y = 5(4)^2$ $y = 5(16) = \boxed{80}$</p> <p>If $x = 0 \rightarrow y = 5(0)^2$ $y = 5(0) = \boxed{0}$</p> <p>If $x = -6 \rightarrow y = 5(-6)^2$ $y = 5(36) = \boxed{180}$</p>	<table style="width: 100%;"> <thead> <tr> <th style="width: 50%; text-align: center;"><u>Input</u></th> <th style="width: 50%; text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">If $x = 10$, then $y = \underline{500}$.</td> <td></td> </tr> <tr> <td style="text-align: center;">If $x = -2$, then $y = \underline{20}$.</td> <td></td> </tr> <tr> <td style="text-align: center;">If $x = 4$, then $y = \underline{80}$.</td> <td></td> </tr> <tr> <td style="text-align: center;">If $x = 0$, then $y = \underline{0}$.</td> <td></td> </tr> <tr> <td style="text-align: center;">If $x = -6$, then $y = \underline{180}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = 10$, then $y = \underline{500}$.		If $x = -2$, then $y = \underline{20}$.		If $x = 4$, then $y = \underline{80}$.		If $x = 0$, then $y = \underline{0}$.		If $x = -6$, then $y = \underline{180}$.		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 50%;">Domain x</th> <th style="width: 50%;">Range y</th> </tr> </thead> <tbody> <tr> <td>-6</td> <td>180</td> </tr> <tr> <td>-2</td> <td>20</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>4</td> <td>80</td> </tr> <tr> <td>10</td> <td>500</td> </tr> </tbody> </table>	Domain x	Range y	-6	180	-2	20	0	0	4	80	10	500	<p>$\{(-6, 180), (-2, 20), (0, 0), (4, 80), (10, 500)\}$</p>	<p><u>Limits on the Domain</u> Is there anything that x CANNOT ever be? If yes, what?</p> <p><i>I can plug in any x be able to solve it. There are no limits to this domain.</i></p> <p><u>Limits on the Range</u> Is there anything that y CANNOT ever be? If yes, what?</p> <p><i>Y gets bigger both when x grows negatively and positively. On my points, $(0,0)$ is as low as y gets. If I plug in $x=1$, then $y=5$. For $x=-1$, $y=5$, so I think the limit is $y = 0$. I don't think it can get lower than that.</i></p>
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<p>5. $p(x) = \sqrt{x}$</p>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Input</u></th> <th style="text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		<table border="1"> <thead> <tr> <th style="text-align: center;"><u>Domain</u> x</th> <th style="text-align: center;"><u>Range</u> y</th> </tr> </thead> <tbody> <tr> <td style="height: 100px;"></td> <td style="height: 100px;"></td> </tr> </tbody> </table>	<u>Domain</u> x	<u>Range</u> y			<p>$\{(\quad , \quad), (\quad , \quad),$ $(\quad , \quad), (\quad , \quad),$ $(\quad , \quad)\}$</p>	<p>Limits on the Domain Is there anything that x CANNOT ever be? If yes, what?</p> <p>Limits on the Range Is there anything that y CANNOT ever be? If yes, what?</p>
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<p>8. $x = -3$</p>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Input</u></th> <th style="text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Domain</u> x</th> <th style="text-align: center;"><u>Range</u> y</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black; height: 200px;"></td> <td></td> </tr> </tbody> </table>	<u>Domain</u> x	<u>Range</u> y			<p>$\{(\quad , \quad), (\quad , \quad),$ $(\quad , \quad), (\quad , \quad),$ $(\quad , \quad)\}$</p>	<p>Limits on the Domain Is there anything that x CANNOT ever be? If yes, what?</p> <p>Limits on the Range Is there anything that y CANNOT ever be? If yes, what?</p>
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<p>9. $t(x) = -7$</p>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Input</u></th> <th style="text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Domain</u> x</th> <th style="text-align: center;"><u>Range</u> y</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black; height: 200px;"></td> <td></td> </tr> </tbody> </table>	<u>Domain</u> x	<u>Range</u> y			<p>$\{(\quad , \quad), (\quad , \quad),$ $(\quad , \quad), (\quad , \quad),$ $(\quad , \quad)\}$</p>	<p>Limits on the Domain Is there anything that x CANNOT ever be? If yes, what?</p> <p>Limits on the Range Is there anything that y CANNOT ever be? If yes, what?</p>
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<p>10. $v(x) = x^2 - 4$</p>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Input</u></th> <th style="text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		<table border="1"> <thead> <tr> <th style="text-align: center;"><u>Domain</u> x</th> <th style="text-align: center;"><u>Range</u> y</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> </tr> </tbody> </table>	<u>Domain</u> x	<u>Range</u> y			<p>$\{(\quad , \quad), (\quad , \quad),$ $(\quad , \quad), (\quad , \quad),$ $(\quad , \quad)\}$</p>	<p>Limits on the Domain Is there anything that x CANNOT ever be? If yes, what?</p> <p>Limits on the Range Is there anything that y CANNOT ever be? If yes, what?</p>
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<p>11. $n(x) = 9x - 5$</p>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Input</u></th> <th style="text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		<table border="1"> <thead> <tr> <th style="text-align: center;"><u>Domain</u> x</th> <th style="text-align: center;"><u>Range</u> y</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> </tr> </tbody> </table>	<u>Domain</u> x	<u>Range</u> y			<p>$\{(\quad , \quad), (\quad , \quad),$ $(\quad , \quad), (\quad , \quad),$ $(\quad , \quad)\}$</p>	<p>Limits on the Domain Is there anything that x CANNOT ever be? If yes, what?</p> <p>Limits on the Range Is there anything that y CANNOT ever be? If yes, what?</p>
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<p>12. $j(x) = x^2$</p>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Input</u></th> <th style="text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		<table border="1"> <thead> <tr> <th style="text-align: center;"><u>Domain</u> x</th> <th style="text-align: center;"><u>Range</u> y</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> </tr> </tbody> </table>	<u>Domain</u> x	<u>Range</u> y			<p>$\{(\quad , \quad), (\quad , \quad),$ $(\quad , \quad), (\quad , \quad),$ $(\quad , \quad)\}$</p>	<p>Limits on the Domain Is there anything that x CANNOT ever be? If yes, what?</p> <p>Limits on the Range Is there anything that y CANNOT ever be? If yes, what?</p>
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<p>13. $q(x) = \sqrt{3x}$</p>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>Input</u></th> <th style="text-align: center;"><u>Output</u></th> </tr> </thead> <tbody> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> <tr> <td>If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.</td> <td></td> </tr> </tbody> </table>	<u>Input</u>	<u>Output</u>	If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		If $x = \underline{\hspace{2cm}}$, then $y = \underline{\hspace{2cm}}$.		<table border="1"> <thead> <tr> <th style="text-align: center;"><u>Domain</u> x</th> <th style="text-align: center;"><u>Range</u> y</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> </tr> </tbody> </table>	<u>Domain</u> x	<u>Range</u> y			<p>$\{(\quad , \quad), (\quad , \quad),$ $(\quad , \quad), (\quad , \quad),$ $(\quad , \quad)\}$</p>	<p>Limits on the Domain Is there anything that x CANNOT ever be? If yes, what?</p> <p>Limits on the Range Is there anything that y CANNOT ever be? If yes, what?</p>
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