



Questions?
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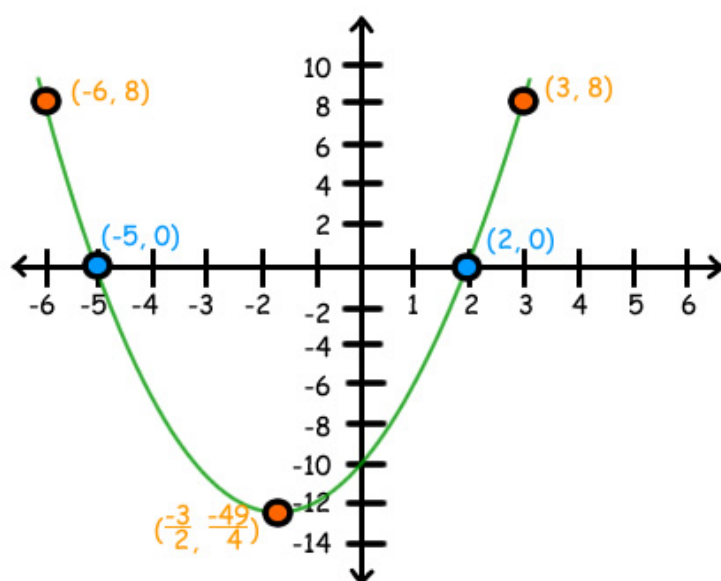
Ask Question ▶

Solve $x^2 + 3x - 10 = 0$ by graphing.

Question

Answer

x	$y = x^2 + 3x - 10$
-6	$y = (-6)^2 + 3(-6) - 10 = 8$
-5	$y = (-5)^2 + 3(-5) - 10 = 0$
$-\frac{3}{2}$	$y = (-\frac{3}{2})^2 + 3(-\frac{3}{2}) - 10 = -\frac{49}{4}$
2	$y = (2)^2 + 3(2) - 10 = 0$
3	$y = (3)^2 + 3(3) - 10 = 8$



$$x = -5 \text{ or } x = 2$$

11. Quadratic equations

[Graphing quadratic equations](#)

[Vertex](#)

[Solving quadratic equations ...](#)

[Solving quadratic equations ...](#)

[Completing squares](#)

[Solving quadratic equations ...](#)

[Transformations of Quadratic...](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

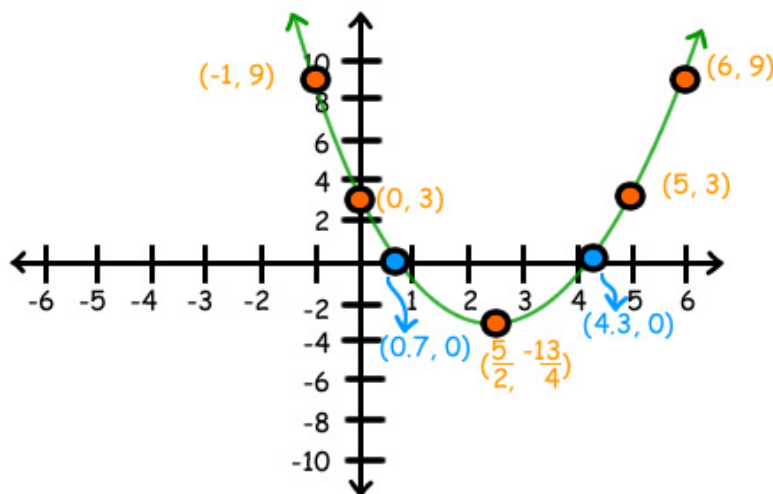
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Solve $x^2 - 5x + 3 = 0$ by graphing.

Question

Answer

x	$y = x^2 - 5x + 3$
-1	$y = (-1)^2 - 5(-1) + 3 = 9$
0	$y = (0)^2 - 5(0) + 3 = 3$
$\frac{5}{2}$	$y = (\frac{5}{2})^2 - 5(\frac{5}{2}) + 3 = -\frac{13}{4}$
5	$y = (5)^2 - 5(5) + 3 = 3$
6	$y = (6)^2 - 5(6) + 3 = 9$



$x = 0.7, 4.3$ (Approximate)

11. Quadratic equations

[Graphing quadratic equations](#)

[Vertex](#)

[Solving quadratic equations ...](#)

[Solving quadratic equations ...](#)

[Completing squares](#)

[Solving quadratic equations ...](#)

[Transformations of Quadratic...](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

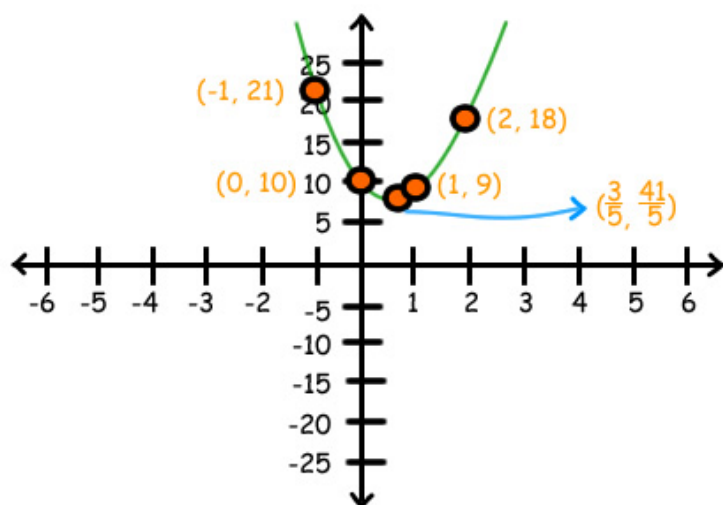
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Solve $5x^2 - 6x + 10 = 0$ by graphing.

Question

Answer

x	$y = 5x^2 - 6x + 10$
-1	$y = 5(-1)^2 - 6(-1) + 10 = 21$
0	$y = 5(0)^2 - 6(0) + 10 = 10$
$\frac{3}{5}$	$y = 5(\frac{3}{5})^2 - 6(\frac{3}{5}) + 10 = \frac{41}{5}$
1	$y = 5(1)^2 - 6(1) + 10 = 9$
2	$y = 5(2)^2 - 6(2) + 10 = 18$



No solution

11. Quadratic equations

[Graphing quadratic equations](#)

[Vertex](#)

[Solving quadratic equations ...](#)

[Solving quadratic equations ...](#)

[Completing squares](#)

[Solving quadratic equations ...](#)

[Transformations of Quadratic...](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

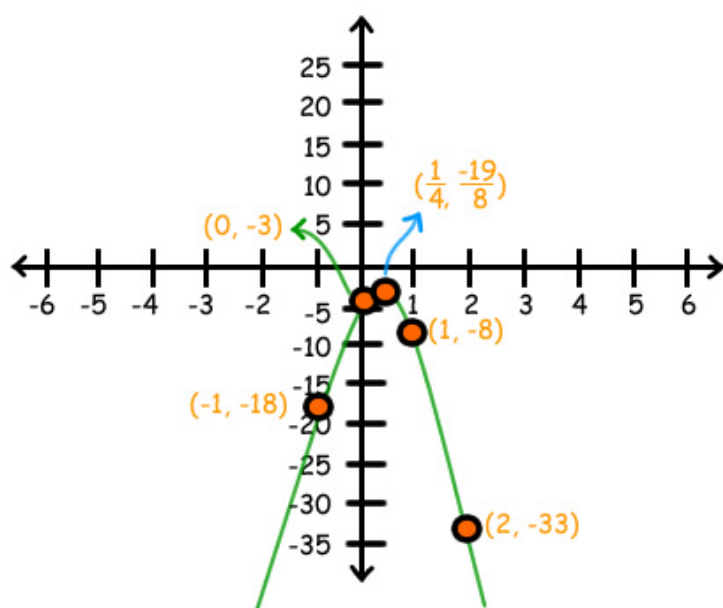
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Solve $-10x^2 + 5x - 3 = 0$ by graphing.

Question

Answer

x	$y = -10x^2 + 5x - 3$
-1	$y = -10(-1)^2 + 5(-1) - 3 = -18$
0	$y = -10(0)^2 + 5(0) - 3 = -3$
$\frac{1}{4}$	$y = -10(\frac{1}{4})^2 + 5(\frac{1}{4}) - 3 = -\frac{19}{8}$
1	$y = -10(1)^2 + 5(1) - 3 = -8$
2	$y = -10(2)^2 + 5(2) - 3 = -33$



No solution

11. Quadratic equations

[Graphing quadratic equations](#)

[Vertex](#)

[Solving quadratic equations ...](#)

[Solving quadratic equations ...](#)

[Completing squares](#)

[Solving quadratic equations ...](#)

[Transformations of Quadratic...](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

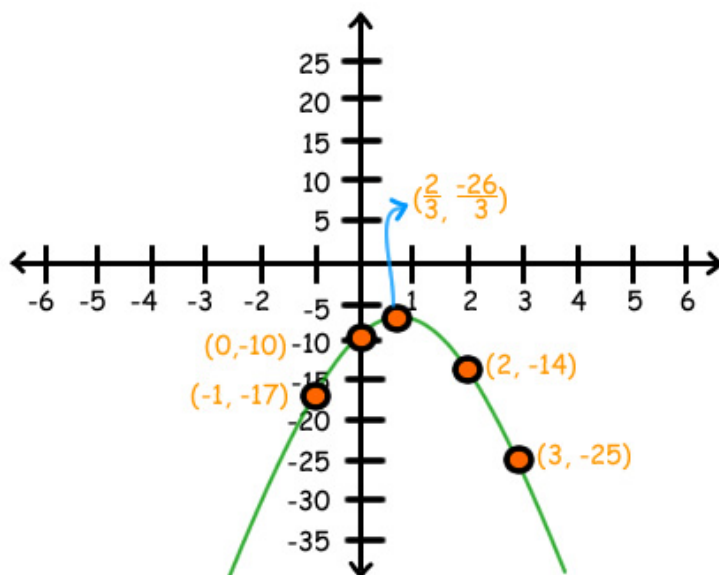
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Solve $-3x^2 + 4x - 10 = 0$ by graphing.

Question

Answer

x	$y = -3x^2 + 4x - 10$
-1	$y = -3(-1)^2 + 4(-1) - 10 = -17$
0	$y = -3(0)^2 + 4(0) - 10 = -10$
$\frac{2}{3}$	$y = -3(\frac{2}{3})^2 + 4(\frac{2}{3}) - 10 = -\frac{26}{3}$
2	$y = -3(2)^2 + 4(2) - 10 = -14$
3	$y = -3(3)^2 + 4(3) - 10 = -25$



No solution

11. Quadratic equations

[Graphing quadratic equations](#)

[Vertex](#)

[Solving quadratic equations ...](#)

[Solving quadratic equations ...](#)

[Completing squares](#)

[Solving quadratic equations ...](#)

[Transformations of Quadratic...](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

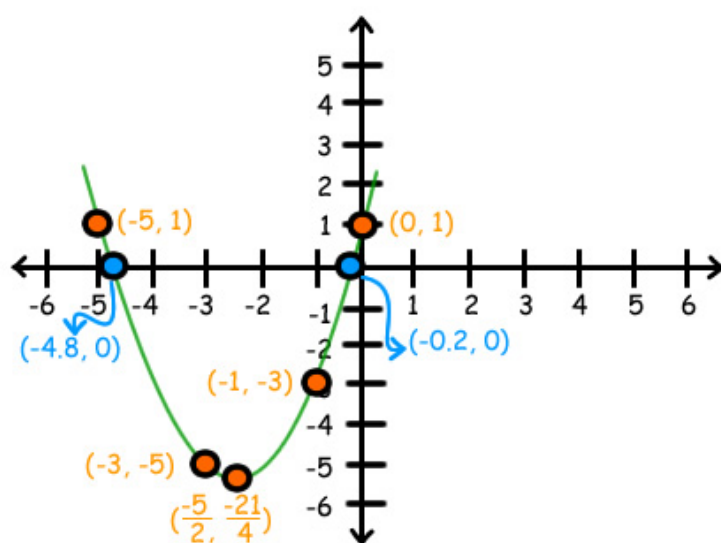
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Solve $x^2 + 5x + 1 = 0$ by graphing.

Question

Answer

x	$y = x^2 + 5x + 1$
-5	$y = (-5)^2 + 5(-5) + 1 = 1$
-3	$y = (-3)^2 + 5(-3) + 1 = -5$
$-\frac{5}{2}$	$y = (-\frac{5}{2})^2 + 5(-\frac{5}{2}) + 1 = -\frac{21}{4}$
-1	$y = (-1)^2 + 5(-1) + 1 = -3$
0	$y = (0)^2 + 5(0) + 1 = 1$



$x = -4.8, -0.2$ (Approximate)

11. Quadratic equations

[Graphing quadratic equations](#)

[Vertex](#)

[Solving quadratic equations ...](#)

[Solving quadratic equations ...](#)

[Completing squares](#)

[Solving quadratic equations ...](#)

[Transformations of Quadratic...](#)

[Table of Contents](#)