Answer:

4

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Factor and solve:

0 = 225x^2 - 16
Answer:

6

Factor:

$5b^2 + 20b + 15$
Answer:

$(3, -1)$

Find $f(-3)$:

$f(x) = -4x - 8$
Answer:

\[
\frac{27}{64}
\]

Solve the system of equations:

\[
\begin{align*}
2x - 3y &= 9 \\
3x - 5y &= 14
\end{align*}
\]
Determine the larger median:

Data Set A

Data Set B

Answer: \( 8x - 12 \)
Answer:

\[
\frac{4}{15} - \frac{4}{15}
\]

Solving using the Quadratic Formula:

\[
x^2 - 4x + 4 = 0
\]
Answer:

28

~~~~~~~~~~~~~

Simplify:

\[ \sqrt{8} \]

\[ \sqrt{9} \]
Answer:

\[(0, -1)\]

The results of a study conducted with 200 children are organized below. Determine the relative frequency of children who were girls and preferred the playground.

<table>
<thead>
<tr>
<th></th>
<th>Girls</th>
<th>Boys</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playground</td>
<td>54</td>
<td>21</td>
<td>75</td>
</tr>
<tr>
<td>Swimming Pool</td>
<td>46</td>
<td>79</td>
<td>125</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
<td>100</td>
<td>200</td>
</tr>
</tbody>
</table>
Find the slope of each line.
Identify the steeper slope:

\[ 5(b+3)(b+1) \]
Answer:

\((0, -3)\)

Which value is a member of the solution set for the inequality?

-9, -5, -1, or 3

\(-9 \leq 2x + 3 < 1\)
Answer:

\[
\frac{2\sqrt{2}}{3}
\]

Evaluate:

\[
\left(\frac{4}{3}\right)^{-3}
\]
Determine the y-intercept of the line that passes through (4, -2) and (8, -1).
Answer:

\[
\frac{15}{4}
\]

Determine the vertex of the quadratic function:

\[
f(x) = \frac{1}{2}x^2 - 1
\]
Answer:

-5

What is the perimeter of a square with a side length of $2x - 3$?
Answer:

Evaluate:

\[ (-4x^2 + y^2 + 8) + (x^2 - 2) - (-3x^2 + y^2) \]