Answer:

4

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:

\[
\begin{align*}
\quad 27 \\
\quad 64
\end{align*}
\]

----------------------------------------

Solve the system of equations:

\[
\begin{align*}
2x - 3y &= 9 \\
3x - 5y &= 14
\end{align*}
\]
Answer: \( qx - 12 \)

Determine the larger median:

Data Set A

Data Set B
Answer:

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

Solving using the Quadratic Formula:

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

\[ \sqrt{8} \]

\[ \frac{1}{\sqrt{9}} \]

Simplify:
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><strong>Total</strong></td>
<td>100</td>
<td>100</td>
<td>200</td>
</tr>
</tbody>
</table>
Answer:

5(b+3)(b+1)

Find the slope of each line. Identify the steeper slope:
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:
\[
\begin{array}{c}
15 \\
- \\
4
\end{array}
\]

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:

2

Evaluate:

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