



Answer:

4

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Factor and solve:

$$0 = 225x^2 - 16$$



Answer:

6

~~~~~

Factor:

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





Answer:

$(3, -1)$



Find  $f(-3)$ :

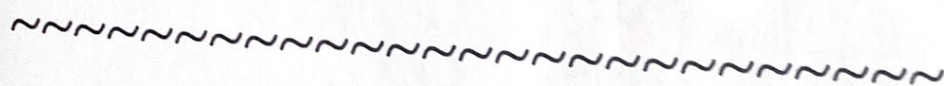
$$f(x) = -4x - 8$$





Answer:

$$\frac{27}{64}$$



Solve the system of equations:

$$2x - 3y = 9$$

$$3x - 5y = 14$$

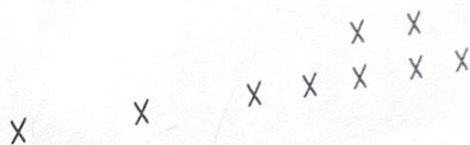


Answer:

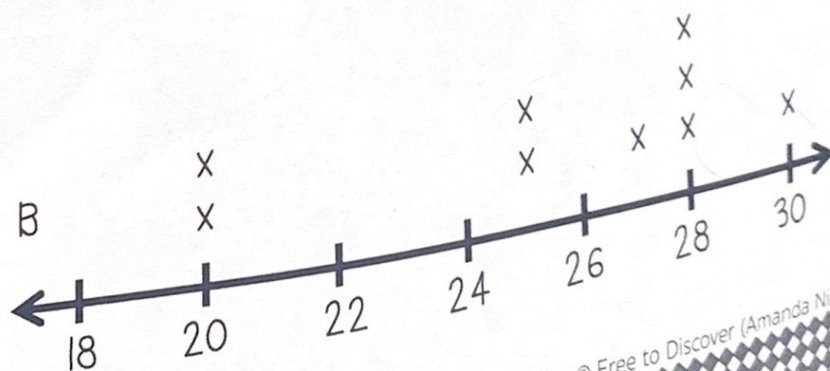
$$8x - 12$$

Determine the larger median:

Data Set A



Data Set B







Answer:

$$\frac{4}{15}, -\frac{4}{15}$$



Solving using the  
Quadratic Formula:

$$x^2 - 4x + 4 = 0$$



Answer:

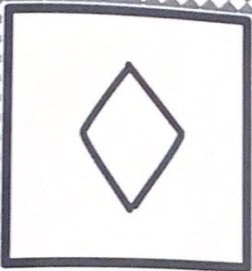
28



Simplify:

$$\sqrt{\frac{8}{9}}$$





Answer:

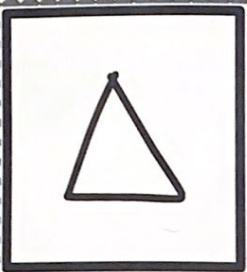
$(0, -1)$

~~~~~

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.

|               | Girls | Boys | Total |
|---------------|-------|------|-------|
| Playground    | 54    | 21   | 75    |
| Swimming Pool | 46    | 79   | 125   |
| Total         | 100   | 100  | 200   |



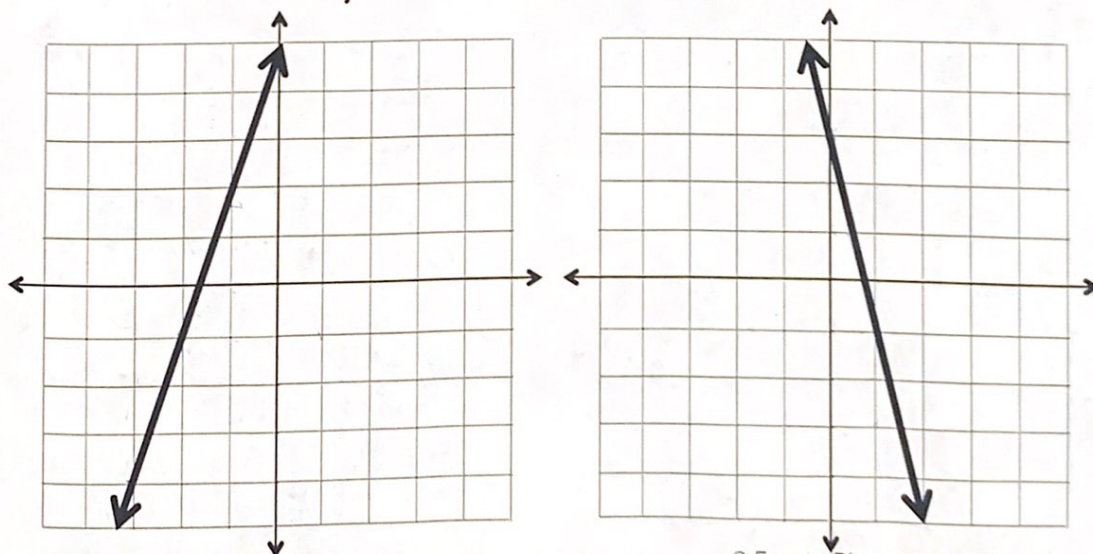


Answer:

$$5(b+3)(b+1)$$



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?

$-9, -5, -1, \text{ or } 3$

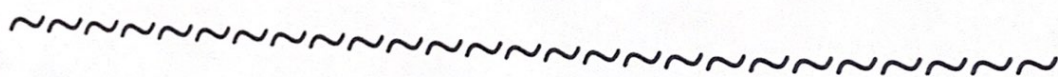
$$-9 \leq 2x + 3 < 1$$





Answer:

$$\frac{2\sqrt{2}}{3}$$



Evaluate:

$$\left(\frac{4}{3}\right)^{-3}$$





Answer:

27 %



Determine the y-intercept  
of the line that passes through  
(4, -2) and (8, -1).





Answer:

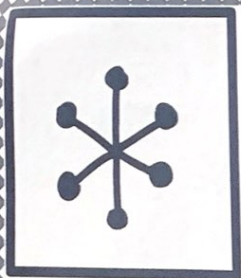
$$\frac{15}{4}$$



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:

2

~~~~~  
Evaluate:

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