

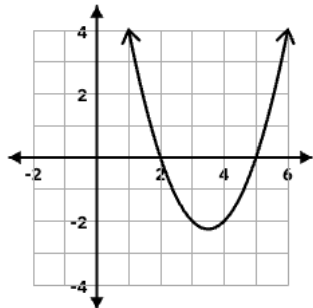
Examples

<p>Review Operations with Square Roots</p> <p>a) add: $\sqrt{12} + 3\sqrt{75}$</p> <p>b) multiply: $-2\sqrt{3}(4\sqrt{6})$</p>	<p>Review Operations with Square Roots</p> <p>c) divide: $\frac{\sqrt{20}}{\sqrt{10}}$</p> <p>d) divide: $\frac{10\sqrt{3}}{\sqrt{5}}$</p>
<p>Ex 1. Solve the equation by finding a square root.</p> $(p - 4)^2 = 49$	<p>Ex 2. Solve the equation by finding a square root.</p> $\frac{2}{3}x^2 + 14 = 20$
<p>Ex 3. Solve the equation by finding a square root.</p> $\frac{2}{5}(x + 3)^2 = 5$	<p>Ex. 4. Solve the equation by FACTORING.</p> $x^2 - 4x = 45$

What are the zeros of a function?

How do we find the zeros of a function?

$$f(x) = x^2 - 7x + 10$$



Ex 6. Find the zeros of the function.

$$f(x) = 2x^2 - 11x + 12$$

Assignment

1. Solve the equation by taking a square root.

$$x^2 = 144$$

2. Solve the equation by taking a square root.

$$(x - 6)^2 = 225$$

3. Solve the equation by taking a square root.

$$4(x - 1)^2 + 2 = 10$$

4. Solve the equation by factoring.

$$x^2 - 8x = -12$$

5. Solve the equation by factoring.

$$x^2 - 64 = 0$$

6. Solve the equation by factoring.

$$x^2 - 6x = 0$$

7. Find the zeros of the function.

$$f(x) = 2x^2 - 2x - 12$$

8. Find the zeros of the function.

$$f(x) = 4x^2 - 12x + 9$$

Operations with square roots.

9. Simplify: $3\sqrt{12}$

10. Subtract: $\sqrt{7} - 4\sqrt{28}$

11. Multiply: $5\sqrt{6} \cdot -8\sqrt{15}$

Operations with square roots.

12. Divide: $\frac{\sqrt{7}}{\sqrt{121}}$

13. Divide: $\frac{\sqrt{14}}{\sqrt{3}}$