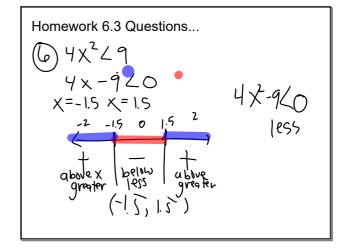
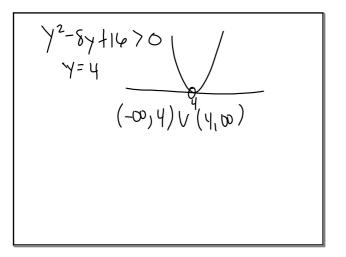
Mastery Quiz 3

January Calendar Math Blue Area and Volume



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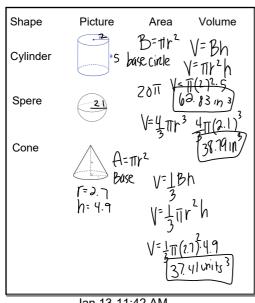
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$$\begin{array}{c}
(13) \quad X^2 - 7x + 15 = 0 \\
a = 1 \quad b = -7 \quad c = 15 \\
y = a(x - h)^2 + k
\end{array}$$

Jan 13-12:19 PM

Jan 13-12:20 PM



Jan 13-11:42 AM

6.4 Rational Inequalities

Anytime you have an x in the denominator you cannot use an x-value that will make it 0.

The value that will make the denominator 0 is a vertical asymptote.

You CANNOT touch an asymptote. It must be an open circle (Parenthesis)

What is the vertical asymptote? x-3

Remember to set the bottom equal to zero.

Feb 2-1:13 PM

Steps to Solving Rational Inequalities

Step 1: Set the bottom equal to zero get the vertical asymptote.

Set the top equal to zero to get the x-intercept.

Step 2: Make a sign chart- test points to determine if the graph is positive or negative

Step 3: Determine if the answer is positives or negatives.

Step 4: Write the answer in interval notation from left to right.

Bracket: Closed Circle, top only

∠, ≥

Parenthesis: Open Circle, always bottom
∠,)

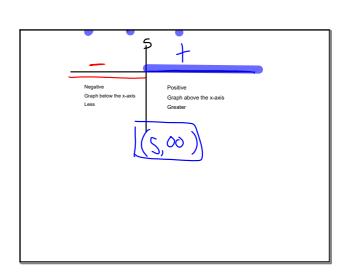
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Example: 1 0 9 Coter

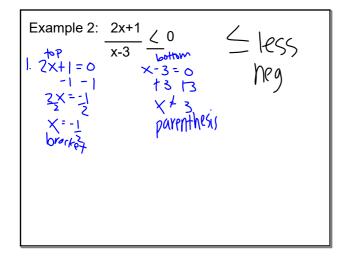
Step 1:
$$x-5=0$$
 $(x \neq 5)$

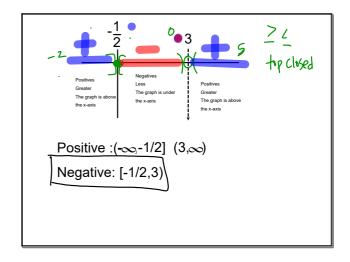
Step 2: y value is regardine y value is positive y value is y value is y value y valu

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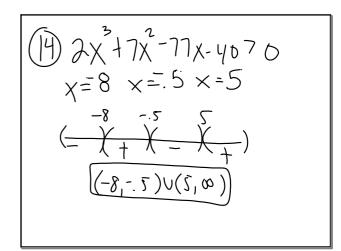




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Polynomials

- find X-Intercepts Sign chart



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Vertex: $y = a(x-h)^2 + k$ 4.3/4.4 Intercept: y = a(x-p)(x-q)

Jan 13-12:54 PM

Jan 13-5:19 PM