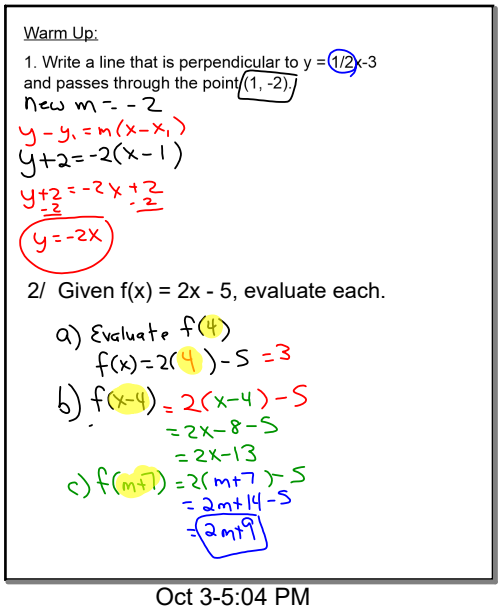
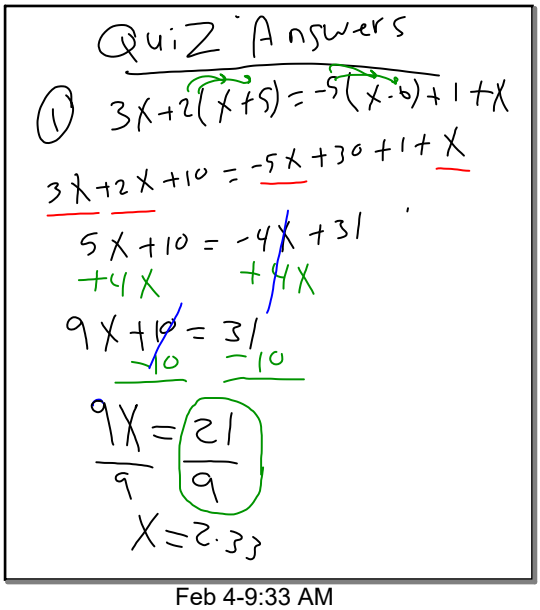
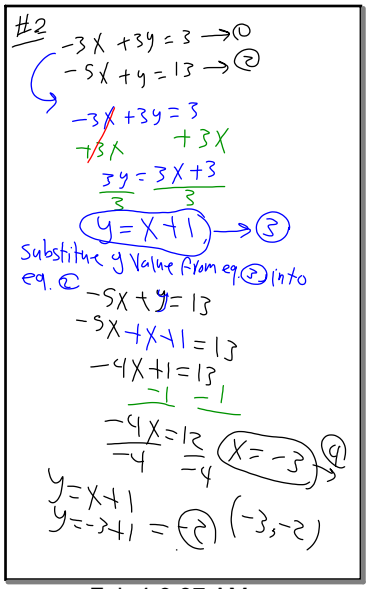


Oct 3-5:04 PM



Feb 4-9:33 AM



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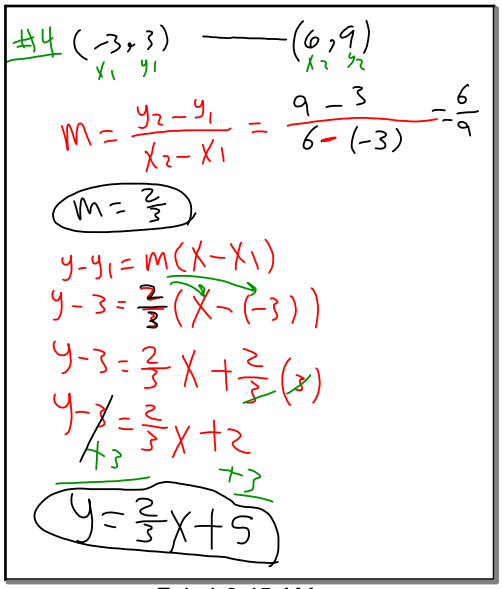

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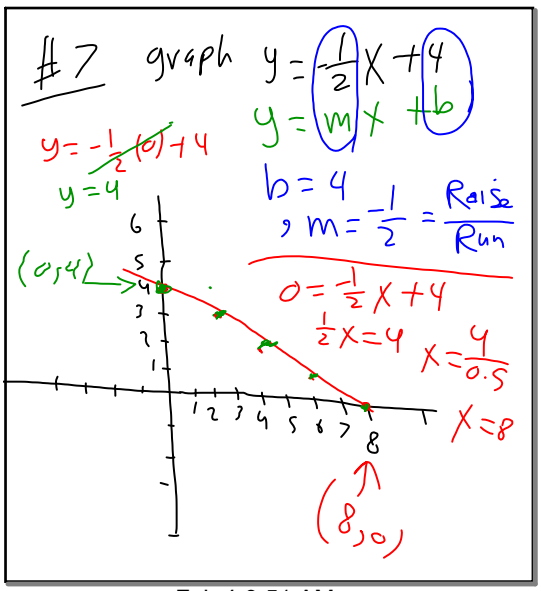
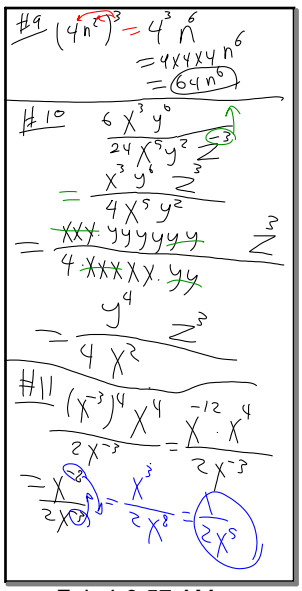


Feb 4-9:51 AM



Feb 4-9:57 AM

Simplifying Radicals

Definition of $b^{1/n}$: For any real number b and for any integer n>1, $b^{1/n}=\sqrt[n]{b}$

Express each rational exponent in radical form:

1) $36^{\frac{1}{2}}$

2) $64^{1/3}$

$b^{\frac{1}{n}}=\sqrt[n]{b}$

$\sqrt{\ }=\sqrt[2]{\ }$

Oct 3-5:04 PM

The order of a Radical is represent the Number of repeating Units

$\sqrt{\#}=\sqrt[2]{\ }$ = Repeat 2 time

$\sqrt[3]{\#}$ = Repeat 3 times

$\sqrt[4]{\#}$ =

Feb 4-10:54 AM

otherway

Feb 4-11:02 AM

Simplifying Radicals

Definition of $b^{m/n}$: For any real number b and for any integer n>1, $b^{m/n}=\sqrt[n]{b^m}$

Express each rational exponent in radical form:

1) $x^{5/7}$

2) $2^{1/4}y^{1/4}z^{3/4}$

3) $2^{1/2}y^{1/3}z^{2/3}$

Oct 3-5:04 PM

Express in exponential form:

1) $\sqrt[3]{21^1}$

2) $\sqrt{7ab^1}$

3) $\sqrt[3]{6x^2}$

4) $\sqrt[10]{x^4}$

Oct 3-5:10 PM

An expression that contains a radical sign ($\sqrt{\ }$) is a radical expression.

The expression under a radical sign is a radicand.

Oct 3-5:14 PM

Simplest form of a square root expression:

An expression containing square roots is in simplest form when:

1. The radicand has no perfect square factors other than 1.
2. The radicand has no fractions.
3. There are no square roots in any denominator.

Oct 3-5:16 PM

Simplify:

1. $\sqrt{24}$ 2. $\sqrt{x^3y^4}$ 3. $\sqrt{48a^2b}$

Oct 3-5:17 PM

3) $\sqrt{48a^2b}$

Sep 4-8:27 AM

Simplify.

4) $3\sqrt{54}$

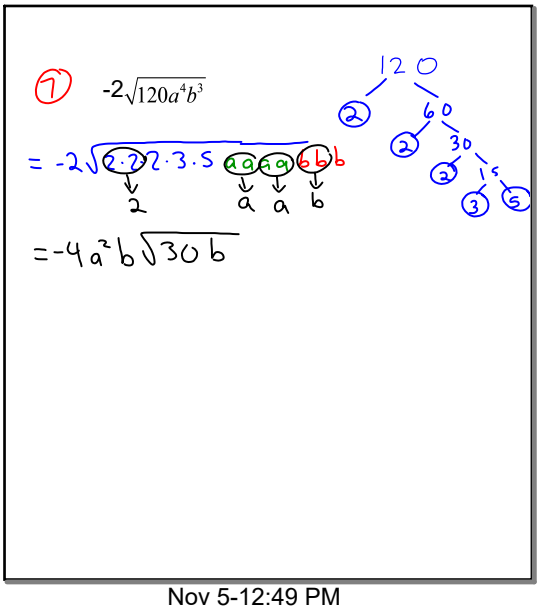
Nov 5-12:48 PM

5) $\sqrt[3]{8x^4y^5z}$

Nov 5-12:49 PM

6) $\sqrt[4]{12x^2y^5}$

Sep 4-8:40 AM


7
$-2\sqrt{120a^4b^3}$
$= -2\sqrt{2\cdot2\cdot2\cdot3\cdot5\,aaaabbb}$
$= -4a^2b\sqrt{30b}$
120
60
30
15
2
2
2
3
5
2
a
a
b

Nov 5-12:49 PM