Bellwork Alg 2A Tuesday, March 21, 2017

1. Simplify this expression. No decimals in your answer. $\frac{(12i^4)^2}{(9i^3)^2(2i^5)^3}$

Find all Exact Complex solutions (this means real and imaginary) to each quadratic equation. Simplify all radicals.

$$2. \quad 3x^2 + 158 = 62$$

3.
$$2(x+3)^2 + 38 = 7$$

4.
$$-5(x-9)^2 + 313 = 68$$

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1. Simplify this expression. No decimals in your answer.

$$\frac{144(1)}{(81)^{-1}(8)^{-1}} = \frac{144(1)}{(81)^{-1}(8)^{-1}} = \frac{144(1)}{(81)^{-1}} = \frac{144(1)}{(81)^{-1}(8)^{-1}} = \frac{144(1)}{(81)^{-1}} = \frac{144(1)$$

Find all Exact Complex solutions (this means real and imaginary) to each quadratic equation. Simplify all radicals.

2.
$$3x^{2} + 158 = 62$$
 $-158 - 158$

$$3x^{2} = -96$$

$$1x^{2} = -32 \rightarrow 16.2$$

$$1x^{2} = \pm 4ix^{2}$$

3.
$$2(x+3)^2 + 38 = \%$$

$$-38 - 38$$

$$2(x+3)^2 = -30$$

$$2(x+3)^2 = -15$$

$$x+3 = \pm 2\sqrt{15}$$

$$x+3 = -3 \pm 2\sqrt{15}$$

$$-5(x-9)^{2} + 313 = 68$$

$$-3i3 - 3i3$$

$$-5(x-9)^{2} = -245$$

$$-5 = -245$$

$$(x-9)^{2} = -245$$

$$(x-9)^{2} = -245$$

$$x-9 = \pm 7$$

$$x = +7+9$$

$$x = -7+9$$

$$x = -7+9$$