Bellwork Hon Alg 2 1st, 2nd, 3rd hrs Monday, October 8, 2018

1. Find ALL EXACT COMPLEX solutions.

a)
$$4x^5 + 52x^3 + 144x = 0$$

b)
$$3(x-6)^2 + 43 = 7$$

Simplify each.

2.
$$(5-3\sqrt{-16})-(6+2\sqrt{-49})$$

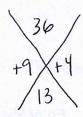
3.
$$|4-6i|$$

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1. Find ALL EXACT COMPLEX solutions.

a)
$$4x^5 + 52x^3 + 144x = 0$$

$$4x(x^4+13x^2+36)=0$$



$$X = 0 \qquad \sqrt{X^2 = -9} \qquad \sqrt{X^2 = -9}$$

b)
$$3(x-6)^2 + 43 = 7$$

$$\frac{3(x-6)^2 = -36}{3}$$

$$X-6 = \pm 2i \sqrt{3}$$

+6 +6
 $X = 6 \pm 2i \sqrt{3}$

Simplify each.

2.
$$(5-3\sqrt{-16})-(6+2\sqrt{-49})$$

3.
$$|4-6i| = \sqrt{4^2 + 6^2}$$

Imaginary

