Bellwork Alg 2 Thursday, February 6, 2020

Solve each.

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2. $\sqrt{(x-7)^3} + 9 = 17$

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1. $15\sqrt[3]{x+2} - 11 = 19$

$+11 \quad +11$

$\frac{15\sqrt[3]{x+2}}{15} = \frac{30}{15}$

$\left(\sqrt[3]{x+2}\right)^3 = (2)^3$

$x + 2 = 8$

$-2 \quad -2$

$\boxed{x = 6}$

2. $\sqrt{(x-7)^3} + 9 = 17$

$-9 \quad -9$

$\left(\sqrt{(x-7)^3}\right)^2 = (8)^2$

$\sqrt[3]{(x-7)^3} = \sqrt[3]{64}$

$x - 7 = 4$

$+7 \quad +7$

$\boxed{x = 11}$