Bellwork Alg 2 Monday, November 11, 2019

Find all real solutions using square roots or cube roots.

1.
$$2x^2 - 85 = 13$$

$$2. \quad 17 + 4x^3 = 49$$

$$3. \quad 35 + 3x^2 = 23$$

4.
$$11 - 2x^3 = 65$$

Factor completely. Start with GCF.

5.
$$3x^3 - 75x$$

6.
$$2x^3 + 18x$$

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AnswERS

Find all real solutions using square roots or cube roots.

1.
$$2x^2 - 85 = 13$$

+ 85 + 85

$$\frac{2x^2}{2} = \frac{98}{2}$$

$$\sqrt{\chi^2} = \sqrt{49}$$

$$2. \quad 17 + 4x^3 = 49$$

$$\frac{4x^3}{4} = \frac{32}{4}$$

$$3. \quad 35 + 3x^2 = 23$$

$$-35 \quad -35$$

$$\frac{3.x^{2}}{3} = \frac{-12}{3}$$

$$\sqrt{x^{2}} = \sqrt{-4}$$

No Real Solutions

4.
$$11 - 2x^{3} = 65$$

$$-11$$

$$-2x^{3} = 54$$

$$-2$$

$$\sqrt{x^{3}} = \sqrt[3]{27}$$

Factor completely. Start with GCF.

5.
$$3x^3 - 75x$$

$$= 3 \times (x^{2} = 25)$$

$$= 3 \times (x + 5)(x - 5)$$
or
$$3 \times (x \pm 5)$$

6.
$$2x^3 + 18x$$

$$= 2 \times (x^2 + 9)$$

$$= x^2 + 9 \text{ is}$$
NOT FACTORABLE
ANY FURTHER