Algebra 1

Our Goal: To review for the Chapter 7 quiz

Warm Up: AMC 8

Today's homework
Big Ideas Mid Chapter Quiz

Previous homework
7.5 Exercises, p.389: 4-38 (evens)

it's never too late to do better

Ada Lovelace

Factor 6.

3×2

1×6

$\frac{1}{2} \times 12$

$4 + 2$

Factor.

$$7x^2 - 35x + 42$$

$$7(\underline{x^2} - \underline{5x} + \underline{6})$$

Factor.

$$40d^3e^2 - 30d^2e^2$$

$$10d^2e^2(\underline{4d} - \underline{3})$$
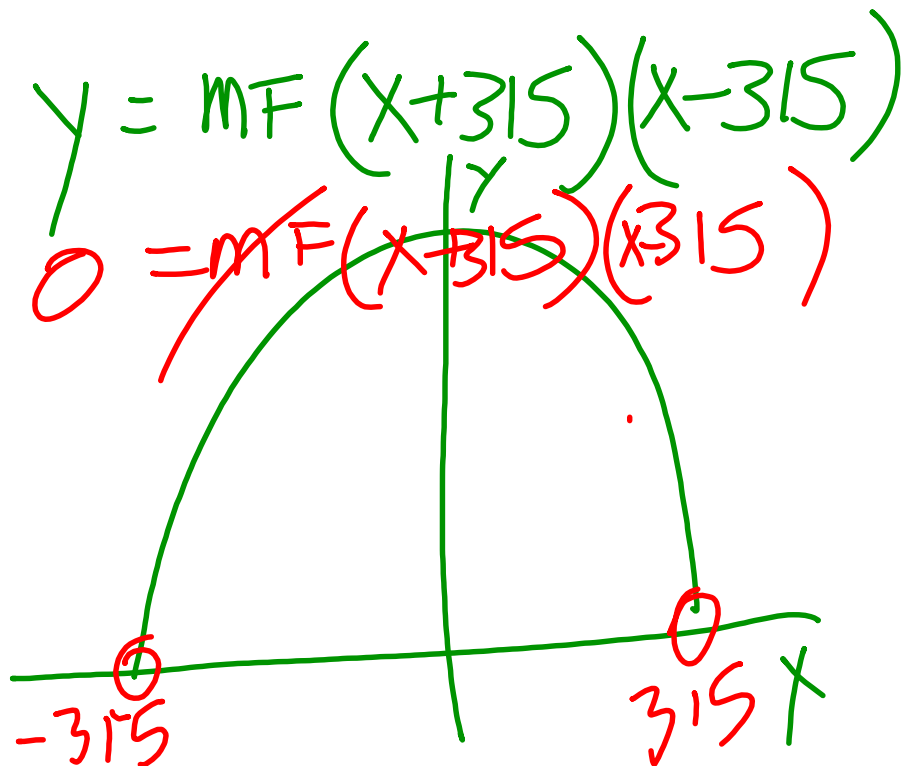
$$3x^3 - 5x^2 = 0$$

$$x^2(3x - 5) = 0$$

$$x = 0, \frac{5}{3}$$

$$3x - 5 = 0$$
$$+5 \quad +5$$
$$3x = 5$$
$$x = \frac{5}{3}$$

$$y = MF(x + 315)(x - 315)$$

$$0 = MF(x + 315)(x + 315)$$

-315

315 x

$$x(x+1)(2x-3) = 0$$

$$x = 0$$
$$x = -1$$
$$x = 1.5$$

$$7x^2 = 4x$$
$$-4x \quad -4x$$
$$7x^2 - 4x = 0 \checkmark$$
$$x(7x-4) = 0 \checkmark$$

$$x = 0 \qquad 7x - 4 = 0$$
$$7x = 4$$
$$x = \frac{4}{7}$$

$$21a^5s^4p + 35a^3s^5p$$

$$7a^3sp(3a^4s + 5p^4)$$

$$\frac{4}{7} = .\overline{5714285}$$

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Unit 7 quiz topics:

- Polynomial vocabulary
  - degree
  - leading coefficient
  - number of terms

- Adding and subtracting polynomials

- Multiplying polynomials

- Solving polynomial equations