

Chapter 6 Show enough work to justify your answers. If you attach scratch paper label the problems. Each problem is worth five points. Reduce to lowest terms.

$$1. \frac{x^2 - 8x + 15}{x^2 - 13x + 40} = \frac{(x-3)(x-5)}{(x-5)(x-8)}$$

$$1. \frac{(x-3)}{(x-8)}$$

$$2. \frac{8x + 64}{x^2 - 64} = \frac{8(x+8)}{(x+8)(x-8)}$$

$$2. \frac{8}{x-8}$$

For what value is the expression undefined?

$$3. \frac{x^2 - 8x + 15}{x^2 - 13x + 40} \quad \begin{aligned} x^2 - 13x + 40 &= 0 \\ (x-8)(x-5) &= 0 \\ x &= \{5, 8\} \end{aligned}$$

$$3. x \neq \{5, 8\}$$

$$4. \frac{8x + 64}{x^2 - 64} \quad \begin{aligned} x^2 - 64 &= 0 \\ (x+8)(x-8) &= 0 \\ x &= \{-8, 8\} \end{aligned}$$

$$4. x \neq \{-8, 8\}$$

Multiply or divide as indicated.

$$5. \frac{4x+20}{x^2-25} \cdot \frac{5}{x-5} = \frac{4(x+5)(5)}{(x+5)(x-5)} = \frac{20(x+5)}{(x+5)(x-5)} =$$

$$5. \frac{20}{x-5}$$

$$6. \frac{x^2 - 49}{x+9} \div \frac{x+7}{x^2 - 81} = \frac{(x+7)(x-7)}{x+9} \cdot \frac{(x+9)(x-9)}{x+7}$$

$$6. (x-7)(x-9)$$

Mathxl Test 2 Answers Intermediate Algebra

Patrick Vollmar



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