

Multiplying & Dividing Rational Expressions

Date: _____

Period: _____

Multiply each and state the excluded values.

1a) $\frac{5}{x+4} \cdot \frac{x^2+9x+20}{x+2}$

2a) $\frac{9x^2+18x}{x+2} \cdot \frac{1}{x+2}$

3a) $\frac{3x^2+25x}{x+4} \cdot \frac{1}{3x}$

4a) $\frac{6}{x+4} \cdot \frac{x^2+7x+12}{x+2}$

5a) $\frac{4x+4}{25x^2+25x} \cdot (3x+1)$

6a) $\frac{4}{x+4} \cdot \frac{56x^2+112x}{3x+2}$

7a) $\frac{7}{x^2+5x+4} \cdot \frac{x^2+10x+7}{x+7}$

8a) $\frac{5x}{4x+4} \cdot \frac{4x+8}{15}$

9a) $\frac{5}{x+2} \cdot \frac{5x+10}{6}$

10a) $\frac{x+2}{x^2+13x+40} \cdot \frac{4x+20}{1}$

11a) $\frac{55x^2+110x^2}{55x+55} \cdot \frac{1}{55x^2}$

12a) $\frac{7x+2}{45x^2+18x} \cdot (3x+1)$

Divide each and state the excluded values.

13a) $\frac{x+4}{56x^2+280x} \div \frac{x+4}{x+4}$

14a) $\frac{x^2+7}{6} \div \frac{x+3}{6x+6}$

15a) $3x+6 \div \frac{x^2+9x+14}{1}$

16a) $\frac{9x+90}{4} \div \frac{9x+90}{4x^2}$

17a) $\frac{1}{4x+5x} \div \frac{7x^2}{15x^2+24x}$

18a) $\frac{7x+2}{7} \div \frac{14x^2+47x+24}{4x^2+10x}$

19a) $\frac{x^2+9x+14}{x+7} \div \frac{x+3}{x+10}$

20a) $\frac{4}{28x+12} \div \frac{1}{25x^2+12x}$

21a) $\frac{1}{9x+18} \div \frac{5x}{x^2+11x+28}$

22a) $\frac{x+7}{x+4} \div \frac{9x+36}{x+10}$

23a) $\frac{9x^2+3x^2}{x+2} \div (3x+1)$

24a) $\frac{3x^2+22x+35}{15x} \div \frac{34x+24}{15x}$

Multiply or divide each and state the excluded values.

25a) $\frac{5x^2+4x}{5x^2+5x} \div \frac{x+1}{2x+1}$

26a) $\frac{8x^2+16x^2}{x+5} \div \frac{4x^2+16x^2}{5x+2}$

27a) $\frac{15x+10}{x+2} \div \frac{15x+10}{x+3}$

28a) $\frac{95x}{2x^2+15x+20} \cdot (2x+4)$

Skills Practice Multiplying And Dividing Rational Expressions

Michael Smith



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