

Dividing Rational Expressions per _____ Name _____

$$1] \frac{x-2}{x+3} \div \frac{x+4}{x+3}$$

$$2] \frac{(v-7)(v+8)}{(v+8)(v-10)} \div \frac{1}{v-10}$$

$$3] \frac{n+3}{n+2} \div \frac{(n-1)(n+3)}{(n-1)^2}$$

$$4] \frac{x^2+10x+16}{x^2+6x+8} \div \frac{1}{x+4}$$

$$5] \frac{x^2-16}{9-x} \cdot \frac{x^2+x-90}{x^2+14x+40}$$

$$6] \frac{x^2 + 6x + 8}{3x + 2} \div \frac{-x - 4}{3x^2 - x - 2}$$

$$7] \frac{x^2 + 1}{x} \div \frac{x^2 - 1}{2x}$$

$$8] \frac{x^2 - 9}{x + 3} \div (x - 3)$$

$$9] \frac{x^2 - 121}{x^2 + x - 20} \div \frac{x^2 - 10x - 11}{x^2 - 25}$$

$$10] \frac{4x^2y}{5z^4} \div \frac{2x}{z} \div \frac{1}{2z}$$