

NOTE: WHEN DIVIDING,
 REWRITE AS MULTIPLICATION
 BY FLIPPING THE FRACTION
 FOLLOWING \div SYMBOL
 AND CHANGE IT TO
 MULTIPLICATION

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$$\frac{x^2 - 14x + 48}{2x^2 - 7x + 5}$$

$$\frac{x^2 - 64}{x^2 + 7x - 8}$$

$$\frac{x^2 - 14x + 48}{2x^2 - 7x + 5} \div \frac{x^2 - 64}{x^2 + 7x - 8}$$

$$\frac{x^2 - 14x + 48}{2x^2 - 7x + 5} \cdot \frac{x^2 + 7x - 8}{x^2 - 64}$$

$$\frac{(x-6)(x-8)}{(2x-5)(x-1)} \cdot \frac{(x+8)(x-1)}{(x+8)(x-8)}$$

$$\frac{(x-6)(\cancel{x-8})}{(2x-5)(\cancel{x-1})} \cdot \frac{(x+8)(\cancel{x-1})}{(x+8)(\cancel{x-8})}$$

$$\frac{x-6}{2x-5}$$