

Find the quotient

$$\frac{6 - 4x}{6x^2 - 30} \div \frac{4x^2 - 9}{3}$$

Find the quotient

$$\frac{6-4x}{6x^2-30} \div \frac{4x^2-9}{3} = \frac{-2(2x-3)}{6(x^2-5)} \cdot \frac{3}{(2x-3)(2x+3)}$$

$$\frac{-\cancel{6}}{\cancel{6}(x^2-5)(2x+3)}$$

$$\frac{-1}{(x^2-5)(2x+3)}$$