

Rational Expression 9/18
(Fraction)

Simplify:

$$\textcircled{1} \frac{(10x+100)}{(x^2+7x-30)} = \frac{10(x+10)}{(x-3)(x+10)}$$

$$= \frac{10}{x-3}$$

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$$\textcircled{3} \frac{(10p-40)}{(10p-40)} = 1$$

$$\textcircled{5} \frac{(p+4)(p-3)}{(p+4)(p-4)} = \frac{p-3}{p-4}$$

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$$\textcircled{7} \frac{b^2+4b-5}{b^2-4b-45} = \frac{(b+5)(b-1)}{(b-9)(b+5)} = \frac{b-1}{b-9}$$

$$\textcircled{9} \frac{56a-56}{40a-8} = \frac{56(a-1)}{8(5a-1)} = \frac{7(a-1)}{(5a-1)}$$

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$$\textcircled{11} \frac{1}{(x+9)} \cdot \frac{7x(7x^2+7x)}{7x} = \frac{1}{(x+9)} \cdot \frac{7x(x+1)}{7x} = \frac{(x+1)}{(x+9)}$$

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$$\textcircled{13} \frac{(9x^3-72x^2)}{9x^2} \cdot \frac{1}{12x^2} = \frac{9x^2(x-8)}{9x^2} \cdot \frac{1}{12x^2} = \frac{(x-8)}{12x^2}$$

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$$\textcircled{15} \frac{(n-9)}{6} \cdot \frac{6}{8n(n-1)} = \frac{(n-9)}{8n(n-1)}$$

$$\textcircled{19} \frac{10n^2+100n^2}{9n-9} \cdot \frac{n^2+3n-4}{n^2+14n+48} = \frac{10n^2}{9}$$

$$\textcircled{19} \frac{x^2-9x+8}{x^2+x-72} \cdot \frac{x+6}{x^2+14x+48} = \frac{(x-1)}{x^2+17x+72}$$

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$$\textcircled{21} \frac{(n-9)}{(n-8)} \cdot \frac{(n-9)(n-4)}{(n-4)} = \frac{(n-9)(n-9)}{(n-8)} = \frac{(n-9)^2}{(n-8)}$$

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$$\textcircled{23} \frac{16r^2}{9r} \cdot \frac{9r}{(r+10)} = \frac{16r^2}{r+10}$$

$$\textcircled{25} \frac{1}{(x+1)} \cdot \frac{(x+5)(x+1)}{4} = \frac{(x+5)}{4}$$

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$$\textcircled{27} \frac{n^2+11n+18}{n^2-81} \cdot \frac{n^2-16n+63}{6n^3+12n^2}$$

$$\frac{(n+2)(n+9)(n-7)(n-9)}{(n+9)(n-9) \cdot 6n^2(n+2)} = \frac{(n-7)}{6n^2}$$

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$$\textcircled{29} \frac{2b-6}{6b-6} \cdot \frac{-(b^2-5b+4)}{-b^2+5b-4} = \frac{2(b-3)}{6(b-1)} \cdot \frac{-(b-4)(b-1)}{(b-4)(b-3)}$$

$$= \frac{-2}{6} = \frac{-1}{3}$$

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