November 28, 2017

#15) $\frac{1}{5k^2+2k} - \frac{6}{5k+2} = \frac{6}{5k^2+2k}$

LCD: $k(5k+2)$

$\left[\frac{k(5k+2)}{1}\cdot\frac{1}{k(5k+2)}\right] - \left[\frac{k(5k+2)}{1}\cdot\frac{6}{5k+2}\right] = \left[\frac{k(5k+2)}{1}\cdot\frac{6}{k(5k+2)}\right]$

$1 - 6k = 6$

$-1 \qquad -1$

$\frac{-6k}{-6} = \frac{5}{-6}$

$k = -\frac{5}{6}$

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$k = -\frac{5}{6}$

$\frac{1}{5(-\frac{5}{6})^2+2(-\frac{5}{6})} - \frac{6}{5(-\frac{5}{6})+2} = \frac{6}{5(-\frac{5}{6})^2+2(-\frac{5}{6})}$

$\frac{1}{5(\frac{25}{36})-\frac{5}{3}} - \frac{6}{-\frac{25}{6}+\frac{2}{1}} = \frac{6}{5(\frac{25}{36})-\frac{5}{3}}$

$\frac{1}{\frac{125}{36}-\frac{5}{3}} - \frac{6}{\frac{-25+12}{6}} = \frac{6}{\frac{125}{36}-\frac{5}{3}}$

$\frac{1}{\frac{125-60}{36}} - \frac{6k}{-\frac{13}{6}} = \frac{6}{\frac{125-60}{36}}$

$\frac{1}{\frac{65}{36}} - \left[\frac{6}{1}\cdot-\frac{6}{13}\right] = \frac{6}{\frac{65}{36}}$

$\left[\frac{1}{1}\cdot\frac{36}{65}\right] \quad \frac{36}{13} = \frac{6}{1}\cdot\frac{36}{65}$

$\frac{36}{65} + \frac{36}{13} = \frac{216}{65}$

$\frac{36+180}{65}$

$\frac{216}{65} = \frac{216}{65}$ ✓

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Complete Solving Rations Eq.

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Chapter 8

8.1 → Radicals

$\sqrt[n]{a^m} = a^{\frac{m}{n}}$

Index → n, exponent → m, Radicand → a, Base → a

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$7^{\frac{2}{1}} = 7\cdot 7 = 49$

$(-7)^{\frac{2}{1}} = (-7)\cdot(-7) = 49$

$+\sqrt[2]{49^1} = 49^{\frac{1}{2}} = 7$

$-\sqrt[2]{49^1} = (-1)\cdot 49^{\frac{1}{2}} = (-1)\cdot 7$

$= -7$

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