

SOLVING RATIONAL EQUATIONS

$$1. \left(\frac{1}{6k^2} = \frac{1}{3k^2} - \frac{1}{k} \right) 6k^2$$

$$1 = 2 - 6k$$

$$1 - 2 = -6k$$

$$\frac{-1}{-6} = \frac{-6k}{-6}$$

$$\boxed{-\frac{1}{6} = k}$$

$$2. \left(\frac{1}{n^2} + \frac{1}{n} = \frac{1}{2n^2} \right) 2n^2$$

$$2 + 2n = 1$$

$$2n = 1 - 2$$

$$\frac{2n}{2} = \frac{-1}{2}$$

$$\boxed{n = -\frac{1}{2}}$$

$$3. \left(\frac{1}{6b^2} + \frac{1}{6b} = \frac{1}{6} \right) 6b^2$$

$$1 + b = 6$$

$$b = 6 - 1$$

$$\boxed{b = 5}$$

$$4. \left(\frac{b+6}{4b^2} + \frac{3}{2b^2} = \frac{b+4}{2b^2} \right) 4b^2$$

$$b + 6 + 6 = 2b + 8$$

$$b + 12 = 2b + 8$$

$$b - 2b = 8 - 12$$

$$\frac{-b}{-1} = \frac{-4}{-1}$$

$$\boxed{b = 4}$$

$$5. \left(\frac{1}{x} = \frac{6}{5x} + 1 \right) 5x$$

$$5 = 6 + 5x$$

$$5 - 6 = 5x$$

$$\frac{-1}{5} = \frac{5x}{5}$$

$$\boxed{-\frac{1}{5} = x}$$

$$6. \left(\frac{1}{6x^2} = \frac{1}{2x} + \frac{7}{6x^2} \right) 6x^2$$

$$1 - 7 = 3x$$

$$\frac{-6}{3} = \frac{3x}{3}$$

$$\boxed{-2 = x}$$

$$7. \left(\frac{1}{v} + \frac{3v+12}{v^2-5v} = \frac{7v-56}{v^2-5v} \right) v^2-5v$$

$$v - 5v + 3v + 12 = 7v - 56$$

$$-1v + 12 = 7v - 56$$

$$-1v - 7v = -56 + 12$$

$$\frac{-8v}{-8} = \frac{-44}{-8}$$

$$\boxed{v = \frac{44}{8} \text{ or } \frac{11}{2} \text{ or } 5\frac{1}{2}}$$

Advanced Algebra Problems And Solutions

Mark Zegarelli



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