

The deadline for all homework assignments is the one specified in Archie before 11:59 pm. As discussed in class, It must be correctly uploaded in order to be graded. Show all your work and justifications.

For Exercises 53–68, (Odd) solve the equation.

$$53. \frac{1}{2} - \frac{7}{2y} = \frac{5}{y} \quad \{17\}$$

$$55. \frac{w+3}{4w} + 1 = \frac{w-5}{w} \quad \{-23\}$$

$$57. \frac{c}{c-3} = \frac{3}{c-3} - \frac{3}{4} \quad \{ \}; \text{The value } 3 \text{ does not check.}$$

$$59. \frac{1}{t-1} = \frac{3}{t^2-1} \quad \{2\}$$

$$61. \frac{2}{x-5} - \frac{1}{x+5} = \frac{11}{x^2-25} \quad \{-4\}$$

$$63. \frac{5}{x^2-x-2} - \frac{2}{x^2-4} = \frac{4}{x^2+3x+2} \quad \{16\}$$

$$65. \frac{5}{m-2} = \frac{3m}{m^2+2m-8} - \frac{2}{m+4} \quad \{ \}; \text{The value } -4 \text{ does not check.}$$

$$67. \frac{5x}{3x^2-5x-2} - \frac{1}{3x+1} = \frac{3}{2-x} \quad \left\{ -\frac{5}{13} \right\}$$