

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 19–26, solve the equation.

$$19. \frac{3x}{x+2} - \frac{5}{x-4} = \frac{2x^2 - 14x}{x^2 - 2x - 8}$$

$\{-5\}$; The value -2 does not check.

$$22. \frac{n}{n-3} + 2 = \frac{3}{2n-1} \quad \left\{ \frac{3 \pm i}{2} \right\}$$

$$25. \frac{18}{m^2 - 3m} + 2 = \frac{6}{m-3}$$

$\{1\}$; The value 3 does not check.

$$20. \frac{4c}{c-5} - \frac{1}{c+1} = \frac{3c^2 + 3}{c^2 - 4c - 5}$$

$\{-2\}$; The value -1 does not check.

$$23. 2 - \frac{3}{y} = \frac{5}{y^2} \quad \left\{ \frac{5}{2}, -1 \right\}$$

$$26. \frac{48}{m^2 - 4m} + 3 = \frac{12}{m-4}$$

$\{1\}$; The value

$$21. \frac{m}{2m+1} + 1 = \frac{2}{m-3} \quad \left\{ \frac{6 \pm \sqrt{51}}{3} \right\}$$

$$24. 7 + \frac{20}{z} = \frac{3}{z^2} \quad \left\{ \frac{1}{7}, -3 \right\}$$