

Name _____

Date _____

SHOW ALL WORK TO GET ANSWERS (when given).

Solve the equation.

$\frac{8}{5}, -\frac{2}{3}$ 1. $(5z - 8)(3z + 2) = 0$

$\frac{2}{9}, \frac{3}{7}$ 2. $(9w - 2)(7w - 3) = 0$

$4, -\frac{1}{5}$ 3. $(8 - 2c)(5c + 1) = 0$

$\frac{7}{8}, \frac{5}{2}$ 4. $(9 - 8r)(10 - 4r) = 0$

Factor out the greatest common monomial factor.

10. $9x^2 - 21y$

11. $4m^3 + 24m$

12. $10p^2q - 5pq^2$

13. $6x^3y + 9y^2$

14. $35a^2b^2 - 5ab$

15. $12m^2n - 8mn^2$

16. $w^4 - 2w^3 + w$

17. $3p^4 + 15p^2 + 6p$

18. $8r^5 - 20r^4 - 12r^2$

Solve the equation.

$0, \frac{3}{4}$ 19. $12a^2 - 9a = 0$

$0, -\frac{2}{3}$ 20. $18x^2 + 12x = 0$

$0, -\frac{6}{5}$ 21. $20p^2 = -24p$

$0, -\frac{1}{2}$ 22. $-28m^2 = 14m$

$0, \frac{5}{6}$ 23. $-30r^2 = -25r$

$0, \frac{3}{10}$ 24. $15y - 50y^2 = 0$

$0, -\frac{13}{17}$ 25. $26w + 34w^2 = 0$

