
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 15–22, solve by applying the zero product property.

15. $n^2 + 5n = 24$ $\{-8, 3\}$

16. $y^2 = 18 - 7y$ $\{-9, 2\}$

18. $6m(m + 4) = m - 15$ $\left\{-\frac{5}{6}, -3\right\}$

19. $40p^2 - 90 = 0$ $\left\{\frac{3}{2}, -\frac{3}{2}\right\}$

21. $3x^2 = 12x$ $\{0, 4\}$

22. $z^2 = 25z$ $\{0, 25\}$

17. $8t(t + 3) = 2t - 5$ $\left\{-\frac{5}{2}, -\frac{1}{4}\right\}$

20. $32n^2 - 162 = 0$ $\left\{\frac{9}{4}, -\frac{9}{4}\right\}$