Simplify each radical (no decimals) <https://youtu.be/G3ucF7dMXY4?si=nxZ8BGgo5LesTRCf>

1. 2. 3. 4.

Evaluate each expression

<https://youtu.be/WJqw-cxvKgo?si=KmZtXGbCpXlyYQWh>

5. 6. 7.

Solve each equation:

<https://youtu.be/p9KxtRgfVvs?si=9opMEzi8KMWnoUBU>

8. 9. 10.

11.

Write the equation of a line, in slope-intercept form) that passes through the following points:

<https://youtu.be/4vXqMsvPSv4?si=YLlPMl17CcPtFnz1>

12. (-12, -1) and (-3, -4) 13. (-11, 7) and (-11, -2)

For each equation, identify the slope and y-intercept:

<https://youtu.be/RZAMCkaw8Nw?si=ktAGplwhXolBczUZ>

14. 15.

Graph a line on a coordinate plane represented by the following equations:

<https://youtu.be/WLTbHVcZnAA?si=x2M6HKYqb7JP037e>

16. 17.

Write the equation of a line in slope-intercept form using the given point and slope:

<https://youtu.be/H9ym0qevDRE?si=y0IUeVfJ_sM_4nb2>

18. (4, -2); slope = 19. (1, 4); slope = -1

Simplify each exponential expression:

<https://youtu.be/LkhPRz7Hocg?si=r7LU3feabQY22ba3>

<https://youtu.be/6NmKjMvDHLA?si=nwqXZw3vWLWxAjzg>

20. 21. 22.

23. (2k-5)(3k-4) 24. (2a+5b)(2a-5b) 25. (2c+1)(

Factor each polynomial:

<https://youtu.be/mXvt9OumKH8?si=t4eg8V5YWIdgX9Rf>

26. 27. 28. 29.

30. 31.

Solve the quadratic. Simplify all irrational solutions (no decimals)

<https://youtu.be/puWdJ-s9y_Y?si=1UVtLrTotFPzbNtg>

32. 33. 34.

Solve by completing the square (I know there are other ways to solve these, but this particular form is essential in this class).

<https://youtu.be/prx_Bf2hakw?si=yIKh8pO08IhPX-IL>

35. 36.

Rationalizing the denominator:

<https://youtu.be/KlZPKMDwg6M?si=x66P9yQT06bhe2hW>

37. 38. 39. 40.