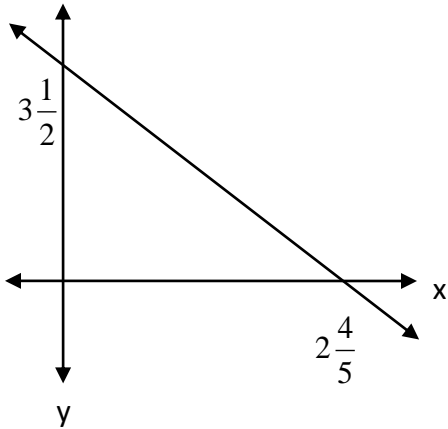


Show all necessary steps Clearly, Neatly, and Systematically to receive full credit. Any incorrect statement will be penalized.

1. Write the equation of the line in standard form form.



2. Solve: $Y = C + bY + I + G + N$ for Y .

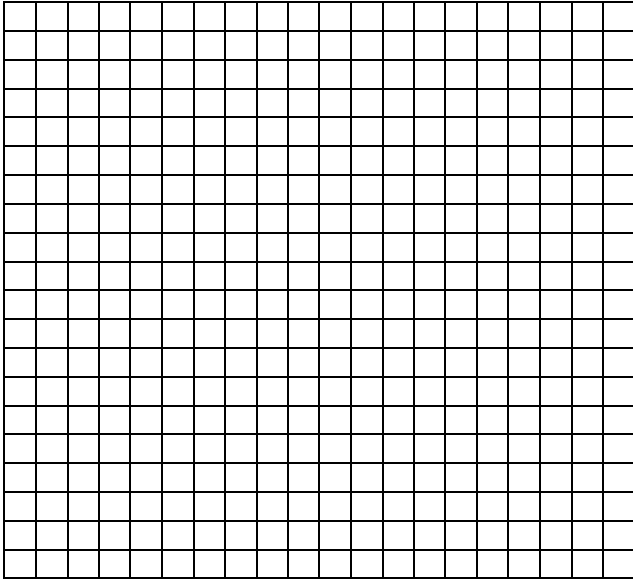
3. Find the height of a right circular cylinder whose volume is 32π cubic inches and whose radius is 2 inches.

4. Solve: $\frac{2x+1}{2} - \frac{x+1}{5} = \frac{3x+1}{4} - \frac{7x-4}{2}$.

5. Simplify: $10\left[\frac{1}{4}\left(\frac{2}{3}x - \frac{1}{2}\right) + \frac{1}{10}\left(\frac{5}{2}x - \frac{15}{4}\right)\right]$.

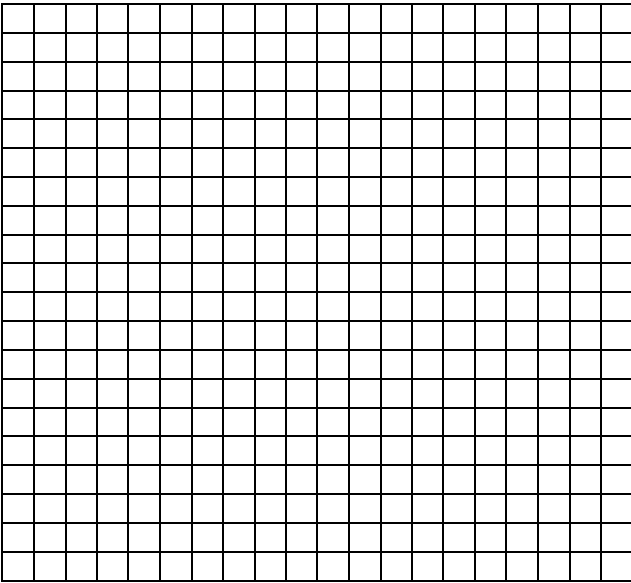
6. Solve: $0.9(z-3) - 0.2(z-5) = 0.4(z+1) + 0.3z - 2.1$.

7. Find x-intercept and y-intercept of the line: $\frac{2}{5}x - \frac{2}{7}y = 2$. Then graph.



8. A pension fund owns 2000 fewer shares in mutual stock funds than mutual bond funds. Currently, the stock funds sell for \$12 per share, and the bond funds sell for \$15 per share. How many shares of each does the pension fund own if their total value is \$165000? (*make sure to show in 3-step format*)

9. Find the slope and y-intercept of the line: $-3.9x - 1.3y = -2.6$. Then graph.



10. The measure of one angle is 10° more than 3 times another angle. Find the measure of each angle if they are complementary. (*make sure to show in 3-step format*)

11. Find the equation of the line which passes through the point $(-3, 2)$ and perpendicular to the line $-2x + 3y + 10 = 5$. Write the result in slope-intercept form.

12. A carpenter wants to put four shelves on an 8-foot wall so that the five spaces created decrease by 6 inches as we move up the wall. If the thickness of each shelf is $\frac{3}{4}$ inch, how far will the bottom shelf be from the floor? (*make sure to show in 3-step format*)