

Answers to BC Exam

1. 54 barrels
2. 4,500 books of fiction
3. $\sqrt{5}$
4. $\frac{1 + \sqrt{5}}{2}$
5. 100π
6. $4 - \pi$
7. 9
8. $\frac{q}{p}$ and $\frac{s}{r}$
9. $\frac{1}{4}$
10. 540°
11. $\frac{5}{9}$
12. $y = -\frac{1}{2}, z = -\frac{2}{9}$
13. $\frac{15}{8}$
14. $m_{WY} = 1, m_{XZ} = -1$, which are negative reciprocals. Therefore, the lines are perpendicular.
15. $\frac{12}{5} = 2.4$
16. 45 lines
17. 51 students