

2018 John O'Bryan Mathematical Competition
Junior-Senior Individual Test

1. _____ -6 _____

11. _____ 387 _____

2. _____ $\frac{mp}{m + pr}$ _____

12. _____ 14 _____

3. _____ $(2,7)$ _____ **Must be this ordered pair.**

13. _____ -1 _____

4. _____ $(3,2)$ _____ **Must be this ordered pair**

14. _____ $\frac{3}{7}$ _____ **Must be this reduced fraction.**

5. _____ 110 _____ **(degrees optional)**

15. _____ $\frac{k}{2w}$ _____

6. _____ $\frac{24}{25}$ _____ **Must be this reduced fraction.**

16. _____ $8\sqrt{11}$ _____ **Must be exactly this answer.**

7. _____ $\frac{15}{29}$ _____ **Must be this reduced fraction.**

17. _____ 1017 _____

8. _____ 7 _____ **18. _____ $\frac{14}{5}$ _____ **Must be this reduced fraction.****

9. _____ 8073 _____ **19. _____ 18 _____**

10. _____ $-\frac{15}{17} - \frac{9}{17}i$ _____ **Must be exactly this answer.** **20. _____ $30\sqrt{2}$ _____ **Must be exactly this answer.****